

CALIFORNIA INSTITUTE OF TECHNOLOGY
EARTHQUAKE ENGINEERING RESEARCH LABORATORY

ANALYSES OF
STRONG MOTION EARTHQUAKE ACCELEROGRAMS

Volume III - Response Spectra
Part T - Accelerograms IIT274 through IIT293

Report No. EERL 75-80

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ABSTRACT

This is one of a series of reports presenting earthquake response spectrum curves calculated from corrected accelerograms. In the preface to the first part, Volume III, Part A, Report No. EERL 72-80, there is a summary of response spectrum techniques in earthquake engineering which is available as background material for the data. For each earthquake accelerogram, two spectrum plots are given - relative velocity response versus period on a linear scale, and a tripartite log-log plot giving relative displacement, pseudo-velocity, and pseudo-acceleration spectra. The Fourier spectrum is also shown on the linear plot. Digital printout of ordinates of the plotted curves are tabulated for each earthquake. The records analyzed in this report, Volume III, Part T, are the corrected accelerogram records contained in Volume II, Part T, Report No. EERL 75-50, and appeared in their uncorrected form in Volume I, Part T, Report No. EERL 73-25.

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PREFACE TO VOLUME III, PART T

This report, Volume III, Part T, Report No. EERL 75-80, is part of the Volume III series presenting earthquake response spectrum curves calculated from corrected accelerograms. This issue contains data from the instrument at the El Centro, California, site in the basement of the Imperial Valley Irrigation District substation. Five El Centro records have already appeared in the project in Parts A and B. These were obtained in 1934 (B024), 1940 (A001), 1956 (A011 and A012) and 1968 (A019). In this issue we complete the El Centro records suitable for digitization that were obtained from 1938 to 1966. The actual dates and times are shown in the Index of Earthquake Records. Of particular interest are the nine groups of aftershocks of the May 18, 1940, event, all recorded on the same triggering as the main shock and therefore with their relative arrival times available. The uncorrected versions of these records appeared in Volume I, Part T, Report No. EERL 73-25, and the corrected accelerations, velocities, and displacements were included in Volume II, Part T, Report No. EERL 75-50. The Volume II corrections included the standard long period cut-off of approximately 15 seconds.

A number of records in this report were without time traces and estimated paper speeds were indicated on the original records. In two cases these paper speeds may need revising as described in the following.

In record IIIT291 an assumed film speed of 0.94 cm/sec, marked on the original record, was used. On further investigation of this record and comparison with the one preceding and the one

following, all three occurring within one hour, it would seem that the film speed of record IIT290, 0.89 cm/sec, was probably maintained throughout all three records. Consequently, for this record IIT291 and the following, IIT292, the film speed should be reduced from 0.94 to 0.89 cm/sec, a reduction of 5.32%. This implies that all periods and other specific times quoted here for these two records should be increased by the multiplicative factor of 1.0532. Corresponding frequencies should likewise be reduced by the factor 0.9495.

NOTES ON THE VOLUME III SERIES

Description of the Four Volumes of the Project. The series of reports in Volume I present "uncorrected" digitized and plotted strong-motion earthquake accelerograph data, while the series in Volume II present corrected digitized data prepared so that the maximum information over the widest practicable frequency range would be available. The corrections include long period filtering ensuring to the greatest extent possible a uniform type of baseline adjustment and an instrument correction to account for the high frequency response characteristics of the accelerograph transducer.

The Volume III series presents earthquake response spectrum curves calculated from the corrected accelerograms of Volume II. A brief introduction to response spectrum techniques as they are commonly applied in the earthquake engineering field appeared in Volume III, Part A, Report No. 72-80, and this may be referred to by those users who need more explanatory remarks than appear in the following.

The Volume IV series contains Fourier amplitude spectra calculated by the Fast Fourier Transform algorithm.

Contents of the Various Parts. Part A of Volume III contained the response spectra analysis for the corrected records of Volume II, Part A, Report No. EERL 71-50. In turn, the "uncorrected" versions of these records appeared in Part A of Volume I. This arrangement has been maintained in all subsequent parts. In Part C of Volume III, Report No. EERL 73-81, we began the presentation of response spectra

analysis for the unusually important series of accelerograms obtained during the San Fernando earthquake of February 9, 1971.

Part S contains the last of the San Fernando records. In Part T a return is made to those records received during the years 1933 to 1968, which continue into Parts U and V. Parts W and X contain the records from the Lytle Creek, California, earthquake of Sept. 12, 1970, and Part Y contains the records of the Borrego Mountain, California, earthquake of April 8, 1968, not already included in Parts A and B. Part Y marks the conclusion of the current digitizing and analysis project.

Component Directions. A description of the component direction nomenclature for the records was given in Volume II, Part B, Report No. EERL 72-50. Consistent with this, the component direction where it appears in this report refers to the direction of the transducer pendulum motion for the trace to be deflected "up" on the record when viewed in the normal way with time increasing from left to right. The direction of true ground acceleration is opposite to this pendulum motion. The spectral calculations of Volume III are concerned with absolute values of the response and the particular component sense in this report is thus immaterial.

Assessment of Long Period Errors. A separate section in Volume II, Part G, Report No. EERL 73-52, entitled "Current Assessment of Long Period Errors" describes the results of a recent investigation of long period displacements calculated from recorded accelerations. During the course of this study it became evident that the procedures for preparation of 70-mm and, to a lesser extent,

35-mm film records from the San Fernando earthquake of February 9, 1971, introduced spurious excitations at periods close to the duration of the sectional enlargements. These effects have been removed from all of the 70- and 35-mm film records by filtering with a long period limit of 8 seconds rather than the standard cut-off period of 16 seconds in the Volume II correction procedure. The following list of Caltech reference numbers indicates the records from the San Fernando earthquake included in Volume I, Parts C through S, that have been processed with the cut-off period of 8 seconds:

Parts G, H, I: All records in these parts.

Part J: Records J142, J145 through J150.

Part K: All records.

Part L: Records L166, L167, L168; L172 through L175.

Part M: Records M176, M177, M178; M180 through M184.

Part N: All records.

Part O: Records O198 through O201; O206, O208, O210.

Part P: Records P231 and P232.

Parts Q, R, S: All records in these parts.

A decision was also made at the same time to eliminate a number of very low amplitude accelerograms from further processing (Volume II, III, and IV), reflecting the expectation that the resulting displacement records will be dominated by noise. Their Caltech reference numbers are as follows:

H127; I140; J151, J152; K153 through K156; K161 through K165; O202, O203, O209, O211, O212; P224 through P230.

The decision to eliminate the very low amplitude accelerograms of the San Fernando earthquake detailed above was extended to include the more distant records of the Lytle Creek earthquake, Sep. 12, 1970, whose uncorrected data appeared in Volume I, Part X. This entire part has been eliminated from further processing.

Description of the Figures and Tables. For each component in the following pages there are two figures showing response spectra and two pages of tables containing most of the spectral ordinates. These are described in detail in the following.

The first plot is that of the true relative velocity response spectrum, SV. The name of the earthquake, the instrument location, and the damping values appear in the descriptive titles. The first title gives the name, date, and time of occurrence of the earthquake; the second is comprised of two labels, the instrument location or observation station and the particular component. The first identification label, for example IIIA001, indicates that this analysis appears in Volume III, Part A, that the processed record belongs to Volume II, Part A, containing corrected data, and that this record is the first of the complete series. This record's uncorrected data appear in Volume I, Part A, and its Fourier spectra in Volume IV, Part A. The second identification label is a record label (for instance 40.001.0), a string of three numbers separated by periods. The first number gives the year in which the earthquake appeared, the second is the serial number of the record as it was received at the Earthquake Engineering Research Laboratory during that year, and the third indicates whether it was a main event or an aftershock, sequentially numbered, the main event starting with zero.

The five continuous line plots correspond to damping values of 0, 2, 5, 10, and 20 percent of critical, and these curves will usually be easily distinguishable, with the zero damped curve having the

greatest ordinates. The dashed curve on this plot is the Fourier amplitude spectrum, FS, calculated at the same periods as for the relative velocity response spectra. The ordinates for the spectra are in units of in/sec, in accordance with past engineering practice, while the scale is chosen to fill the available space. The periods extend to 15 seconds, or 8 seconds, as the case may be, close to the long period cut-off point in the corrected data of Volume II, but the axis is divided into two linear portions. From 0 to 3 seconds takes up three-quarters of the axis, and from 3 to 15 seconds takes up the remainder.

The second plot is that of the pseudo velocity response spectrum, PSV, together with the relative displacement spectrum, SD, and the pseudo acceleration spectrum, PSA, in the tripartite logarithmic plot versus period. This convenient plot is made possible by the relationships between PSV, SD, and PSA detailed in Volume III, Part A, Report No. EERL 72-80. The units are, once again, the engineering units of in/sec, in, and g, respectively. The descriptive titles are the same as on the true relative velocity spectrum.

The two pages of tables contain values of the ordinates for the previous plots. After the titles there are arranged, in columns, the periods (PER), Fourier amplitude spectrum (FS), and then sets of four columns containing SD, SV, SA, and PSV for all of the five damping values. The units are indicated and each value is followed by a multiplicative power of 10, e.g., 432-1 represents a value of 43.2.

The ordinates are also stored on computer cards containing the Fourier amplitude spectrum and, for all of the five damping values,

the pseudo velocity and relative velocity response spectra. A simplified economic format, 13F6.3, is made possible by using the logarithms of these spectra. The last two columns are for identification purposes. These cards are available on request from the National Information Service for Earthquake Engineering at the California Institute of Technology.

Inclusion of Spectra of Upper Story Records. The earthquake response spectrum was originally introduced as a means of characterizing the response of structures to the exciting ground motion, and hence such spectra are usually calculated from ground motions themselves. There are many instances, however, in which a structural motion is the excitation, for example, of mechanical equipment or other objects attached at upper story locations in buildings. In such cases it may be useful to calculate a response spectrum based on an acceleration-time function which is in itself a response to the earthquake ground motion. Such response spectra of structural motions will ordinarily contain predominant peaks corresponding to structural frequencies and will consequently appear very different from ground spectra.

A number of accelerograms have been obtained from instruments located in upper floors of buildings, and it has been decided to include response spectra computed from these structural responses in the same form as the ground spectra. Such building spectra will be useful in estimating the response of equipment and contents to building motions excited by earthquakes. The reader is cautioned to keep this point in mind and to avoid such building spectra when studying the characteristics of the ground motion itself.

Numbering of EERL Reports. The system for the EERL-numbering of the reports is based on two numbers, one indicating the year of preparation, and the second indicating the volume to which the report belongs. A detailed description follows.

For the Volume I reports, the first number indicates the year in which the particular data was first prepared for either a report or for loading onto magnetic tape. This number ranges from 70 to 73. The first printing of Volume I, Part A, appeared before the numbering system was chosen. Although it was dated July, 1969, it actually did not appear until 1970, and was consequently numbered EERL 70-20 in subsequent printings. For the reports of Volumes II, III, and IV, the first number indicates the year in which the report was prepared, and ranges from 70 to 75.

The second number increases consecutively with each report, restarting at 20 each year in the case of Volume I reports, at 50 for Volume II, at 80 for Volume III, and at 100 for Volume IV. For example, Volume II, Part G, Report No. EERL 73-52, was prepared in 1973 and was the third report of the Volume II series to be published that year. The numbers from 01 to 19 each year are reserved for other publications of the Earthquake Engineering Research Laboratory, such as thesis reports and special reports.

Acknowledgments. The cooperative efforts of many people are essential in the preparation of a series of reports of this kind and we have been fortunate in the quality of staff that has carried out the various details with special care and attention. We should like to express our appreciation to Mr. Vincent Lee for his assistance

with many details of computer programming, to Miss Barbara Turner and Miss Sharon Vedrode for the care taken with typing and editing, to the staff of the Willis H. Booth Computing Center for their continued help with all aspects of the computing process, and to the staff of the Caltech Graphic Arts Facilities for very efficient work on publication details. The whole project has been made possible by the continued support of the National Science Foundation, supplemented in an important way by contributions from the Earthquake Research Affiliates Program of the California Institute of Technology.

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INDEX OF EARTHQUAKE RECORDS

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EARTHQUAKE DATA

<u>Location</u>	<u>Date</u>	<u>Time</u>	<u>Lat. (N)</u>	<u>Long. (E)</u>	<u>Depth*</u> (km)	<u>Mag.</u>	<u>Maximum Intensity</u>
Imperial Valley, Cal.	4. 12. 38	0825 PST	32°53'00"	-115°35'00"	16.0	3.0	—
Imperial Valley, Cal.	6. 06. 38	1842 PST	32°54'00"	-115°13'00"	16.0	5.0	—
Imperial Valley, Cal.	6. 06. 38	0435 PST	32°15'00"	-115°10'00"	16.0	4.0	—
Imperial Valley, Cal.	5. 18. 40	2037 PST	32°44'00"	-115°30'00"	16.0	6.7	10
		+45.5 sec					
		+84.0 sec					
		+101.5 sec					
		+125.0 sec					
		+154.0 sec					
		+203.0 sec					
		+242.0 sec					
		+285.5 sec					
		+313.0 sec					
Borrego Valley, Cal.	10. 21. 42	0822 PST	32°58'00"	-116°00'00"	16.0	6.5	7
Imperial Valley, Cal.	1. 23. 51	2317 PST	32°59'00"	-115°44'00"	16.0	5.6	7
Imperial Valley, Cal.	6. 13. 53	2017 PST	32°43'00"	-115°43'00"	16.0	5.5	7
Lower California	11. 12. 54	0427 PST	31°30'00"	-116°00'00"	16.0	6.3	5
Imperial County, Cal.	12. 16. 55	2117 PST	33°00'00"	-115°30'00"	16.0	4.3	—
Imperial County, Cal.	12. 16. 55	2142 PST	33°00'00"	-115°30'00"	16.0	3.9	7
Imperial County, Cal.	12. 16. 55	2207 PST	33°00'00"	-115°30'00"	16.0	5.4	—
Gulf of California	8. 07. 66	0936 PST	31°48'00"	-114°30'00"	16.0	6.3	6

This is the main shock data, revised from that published in Volume I, Part A. There is no corresponding data available on the nine segments of aftershocks, commencing at the times indicated on the left.

*No actual depths are available. Epicenter calculations have used travel times for 16 km focal depth (Gutenberg, 1951; Hileman et al., 1973).

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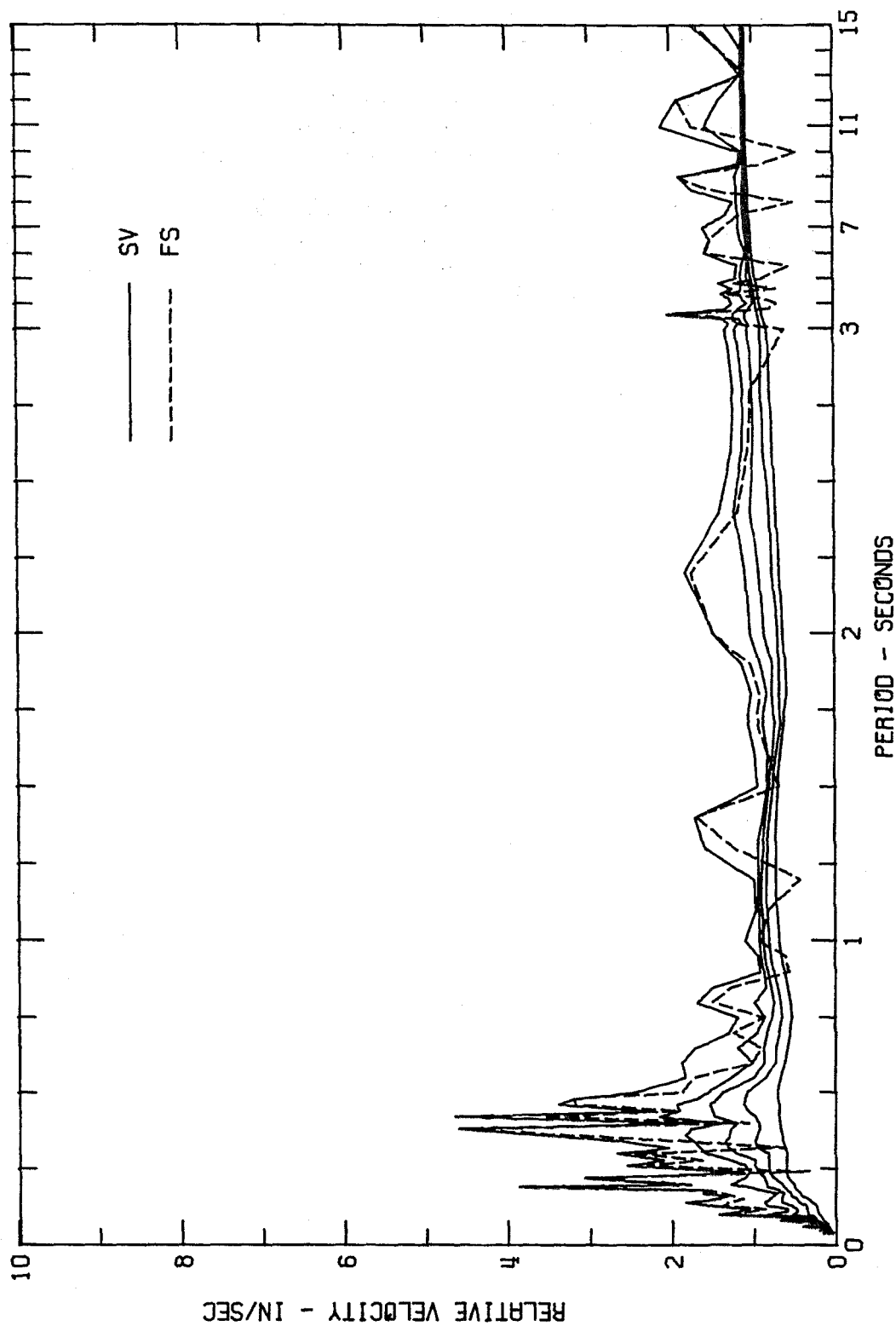
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RELATIVE VELOCITY RESPONSE SPECTRUM

IMPERIAL VALLEY EARTHQUAKE APR 12, 1938 - 0825 PST

111T274 38.001.0 EL CENTR0, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

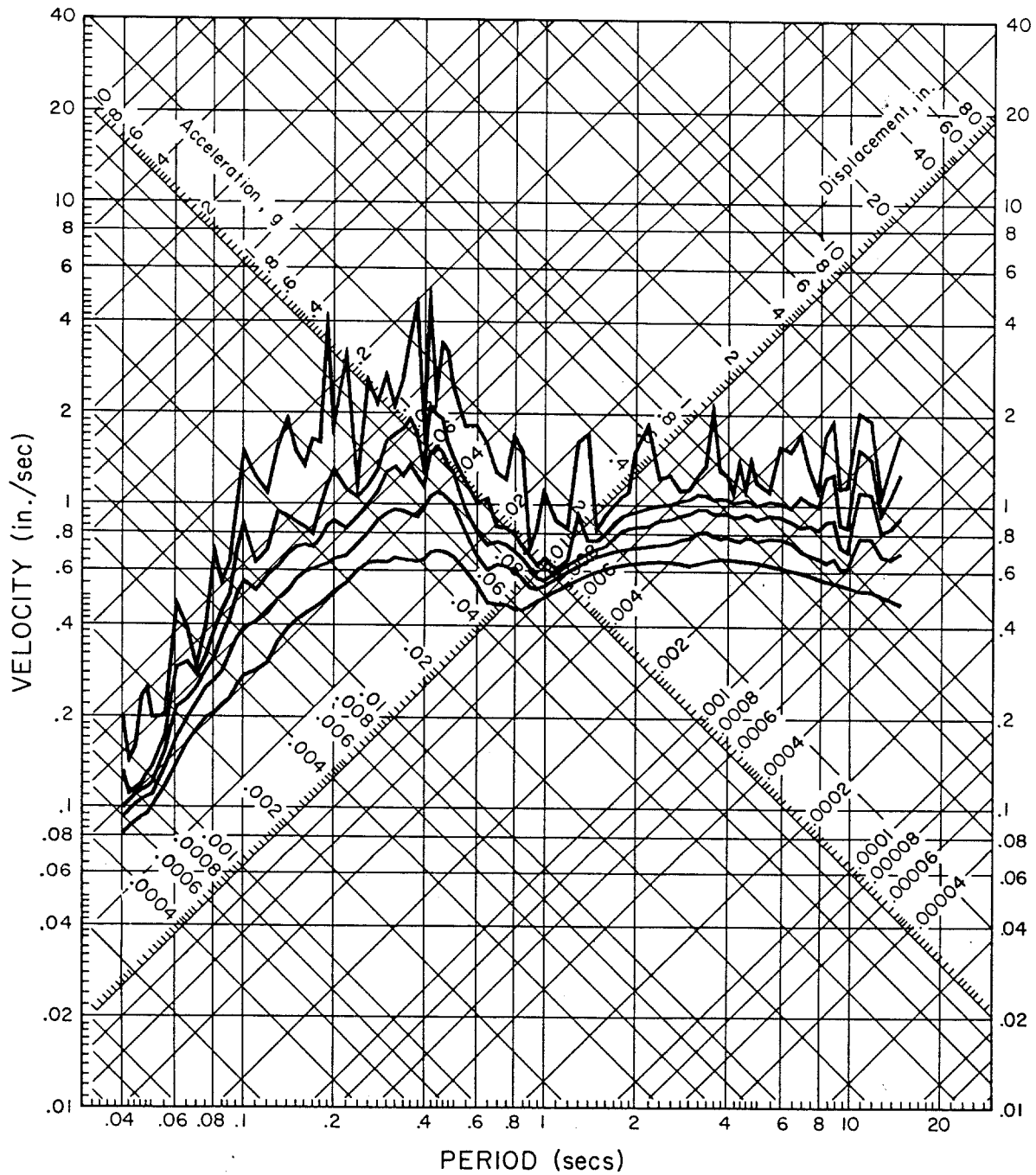


RESPONSE SPECTRUM

IMPERIAL VALLEY EARTHQUAKE APR 12, 1938 - 0825 PST

IIIT274 38.001.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IIII274 38.001. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

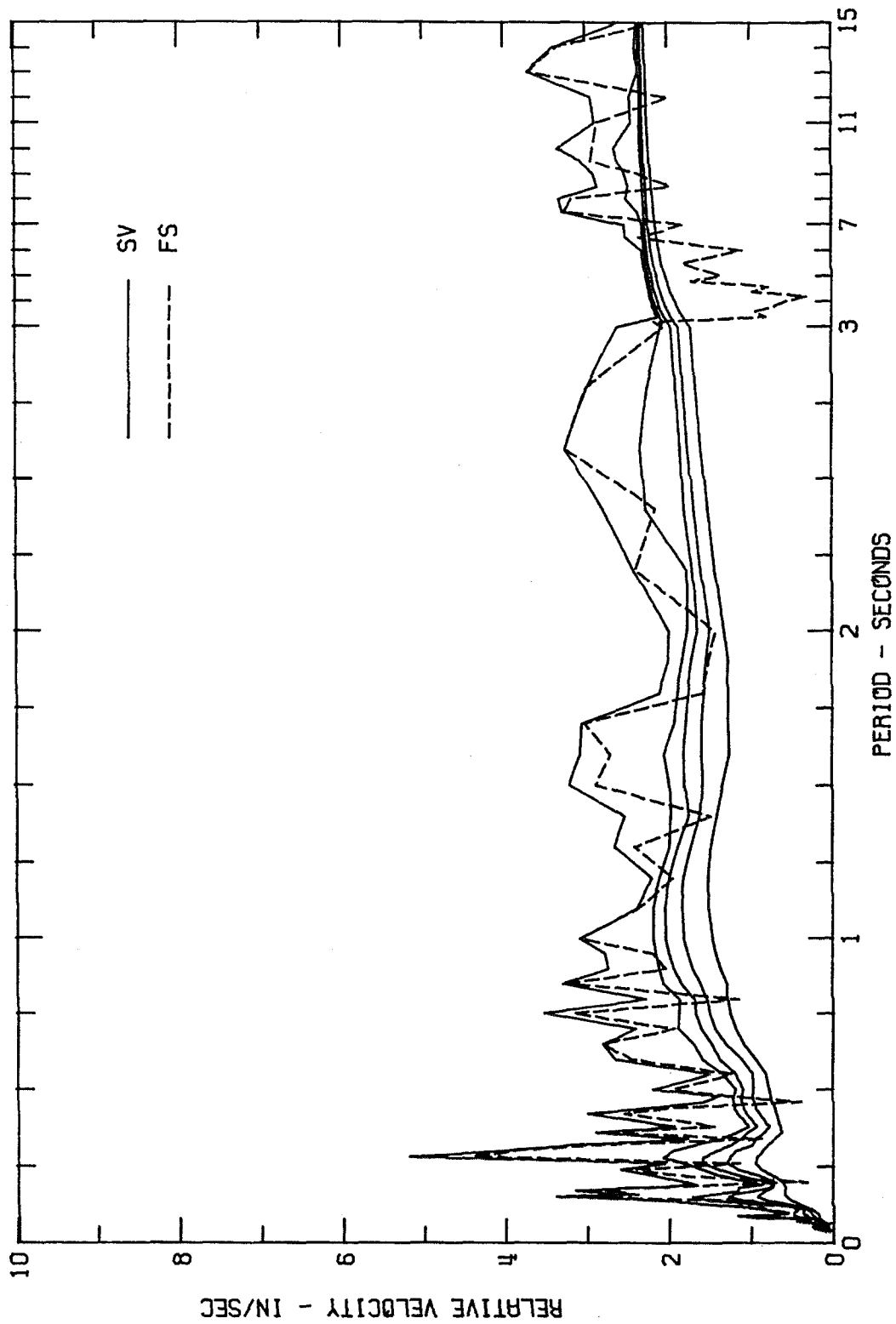
PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT			
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA
0.040	985-4	123-5	153-3	788-4	193-3	825-6	900-4	528-4	129-3	627-6	692-4	406-4	985-4	583-6	584-4	385-4	915-4	511-6	456-4	348-4
0.042	435-4	948-6	979-4	549-4	141-3	731-6	840-4	424-4	109-3	696-6	754-4	399-4	104-3	647-6	636-4	377-4	968-4	566-6	475-4	344-4
0.044	475-4	111-5	109-3	588-4	159-3	797-6	904-4	421-4	113-3	761-6	815-4	401-4	108-3	707-6	691-4	371-4	101-3	619-6	511-4	339-4
0.046	141-3	169-5	199-3	818-4	231-3	869-6	972-4	419-4	118-3	821-6	852-4	398-4	112-3	764-6	727-4	371-4	104-3	669-6	541-4	333-4
0.048	173-3	189-5	213-3	839-4	247-3	981-6	107-3	437-4	128-3	878-6	928-4	393-4	114-3	817-6	790-4	369-4	106-3	716-6	592-4	327-4
0.050	140-3	156-5	153-3	640-4	196-3	107-5	126-3	441-4	135-3	948-6	975-4	390-4	119-3	867-6	836-4	365-4	108-3	795-6	629-4	328-4
0.055	971-4	174-5	134-3	589-4	199-3	150-5	126-3	505-4	171-3	133-5	114-3	449-4	152-3	117-5	984-4	402-4	134-3	102-5	748-4	351-4
0.060	380-3	445-5	420-3	126-3	466-3	276-5	230-3	787-4	289-3	204-5	145-3	575-4	213-3	161-5	118-3	458-4	169-3	132-5	918-4	395-4
0.065	180-3	401-5	314-3	971-4	387-3	310-5	215-3	753-4	300-3	234-5	189-3	567-4	226-3	203-5	155-3	504-4	197-3	168-5	110-3	424-4
0.070	105-3	322-5	279-3	673-4	289-3	302-5	254-3	637-4	271-3	277-5	222-3	590-4	248-3	246-5	181-3	527-4	221-3	200-5	126-3	441-4
0.075	359-3	475-5	360-3	863-4	398-3	376-5	290-3	681-4	315-3	337-5	254-3	611-4	282-3	295-5	206-3	536-4	247-3	234-5	143-3	441-4
0.080	673-3	886-5	694-3	141-3	696-3	487-5	322-3	778-4	382-3	397-5	274-3	639-4	312-3	333-5	223-3	548-4	261-3	261-5	155-3	447-4
0.085	365-3	744-5	456-3	105-3	550-3	604-5	360-3	857-4	446-3	498-5	297-3	711-4	368-3	379-5	241-3	548-4	280-3	293-5	165-3	447-4
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0.095	583-3	152-4	924-3	172-3	100-2	107-4	634-3	121-3	709-3	763-5	425-3	869-4	504-3	543-5	289-3	630-4	359-3	381-5	188-3	450-4
0.100	130-2	237-4	144-2	242-3	149-2	137-4	843-3	139-3	861-3	884-5	532-3	926-4	555-3	618-5	340-3	648-4	388-3	431-5	204-3	454-4
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0.200	177-2	569-4	184-2	145-3	178-2	413-4	129-2	105-3	130-2	279-4	857-3	721-4	878-3	208-4	662-3	527-4	656-3	163-4	523-3	431-4
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

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0.80	150-2	214-3	170-2	343-4	168-2	101-3	995-3	163-4	799-3	892-4	753-3	144-4	701-3	769-4	671-3	127-4	604-3
0.85	127-2	202-3	149-2	286-4	149-2	977-4	854-3	138-4	722-3	895-4	799-3	127-4	662-3	771-4	717-3	113-4	570-3
0.90	572-3	102-3	924-3	129-4	716-3	967-4	888-3	122-4	675-3	883-4	837-3	112-4	616-3	762-4	760-3	101-4	532-3
0.95	607-3	125-3	946-3	141-4	828-3	952-4	913-3	107-4	630-3	865-4	865-3	989-5	572-3	795-4	791-3	930-5	526-3
1.00	823-3	176-3	110-2	180-4	110-2	105-3	931-3	108-4	664-3	896-4	885-3	923-5	563-3	858-4	814-3	907-5	539-3
1.10	923-3	154-3	979-3	130-4	882-3	107-3	949-3	909-5	613-3	104-3	906-3	888-5	596-3	997-4	840-3	869-5	569-3
1.20	430-3	159-3	996-3	112-4	832-3	126-3	945-3	898-5	659-3	120-3	906-3	860-5	630-3	114-3	845-3	835-5	599-3
1.30	123-2	334-3	160-2	202-4	161-2	192-3	953-3	116-4	928-3	137-3	886-3	835-5	662-3	129-3	832-3	803-5	627-3
1.40	169-2	383-3	172-2	200-4	172-2	169-3	885-3	886-5	761-3	154-3	851-3	809-5	691-3	145-3	805-3	776-5	652-3
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2.40	118-2	466-3	140-2	828-5	122-2	380-3	123-2	676-5	995-3	339-3	103-2	608-5	887-3	282-3	807-3	516-5	738-3
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6.50	151-2	156-2	151-2	378-5	151-2	101-2	114-2	246-5	984-3	915-3	107-2	226-5	884-3	780-3	105-2	198-5	754-3
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9.00	189-2	271-2	189-2	343-5	189-2	182-2	120-2	230-5	127-2	128-2	110-2	162-5	894-3	958-3	108-2	123-5	668-3
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1111274
RELATIVE VELOCITY RESPONSE SPECTRUM
IMPERIAL VALLEY EARTHQUAKE APR 12, 1938 - 0825 PST
38.001.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

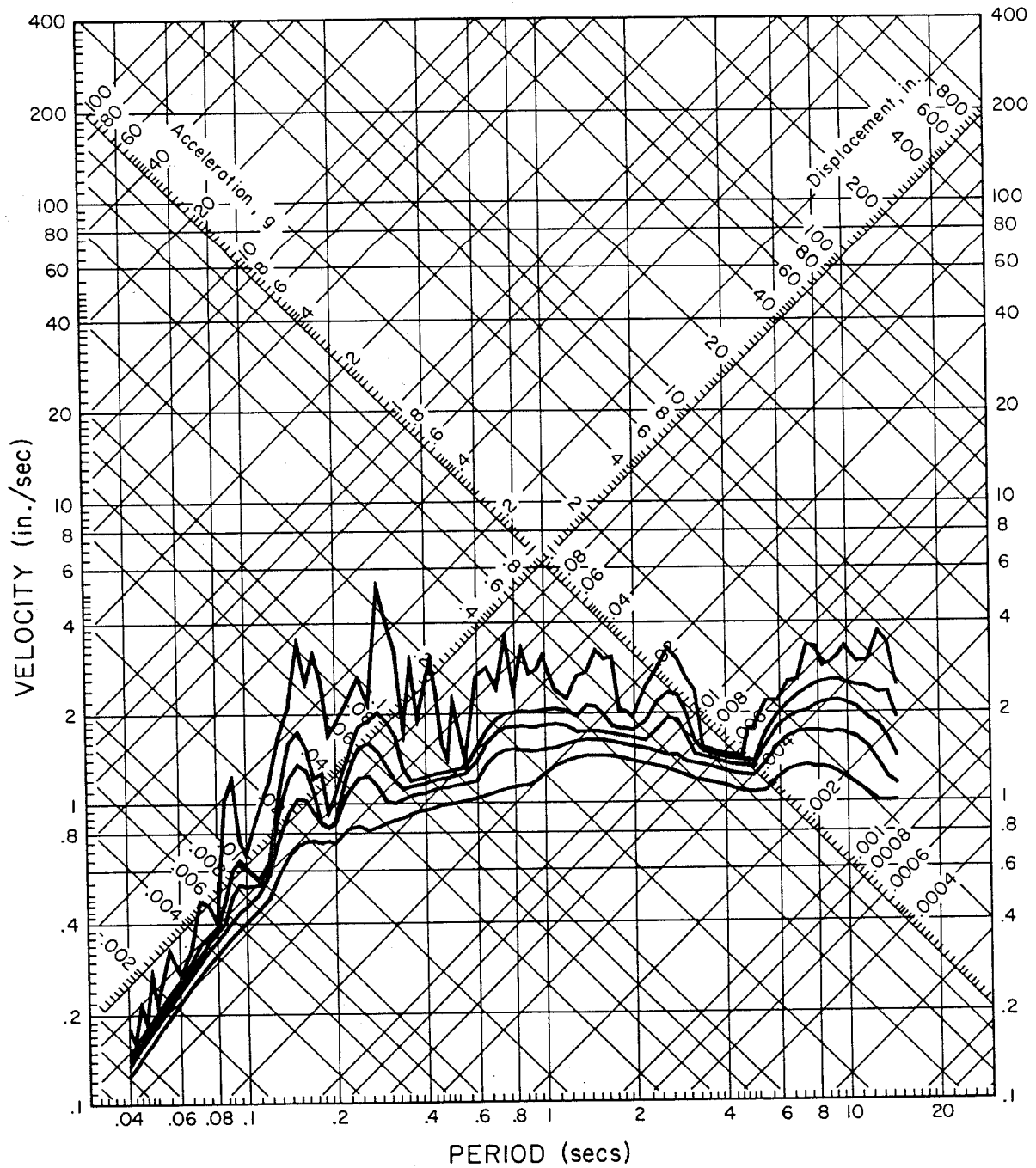


RESPONSE SPECTRUM

IMPERIAL VALLEY EARTHQUAKE APR 12, 1938 - 0825 PST

IIIT274 38.001.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IMPERIAL VALLEY EARTHQUAKE APR 12, 1938 - 0825 PST
 III1274 38.001. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT					
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III T274 38.001. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

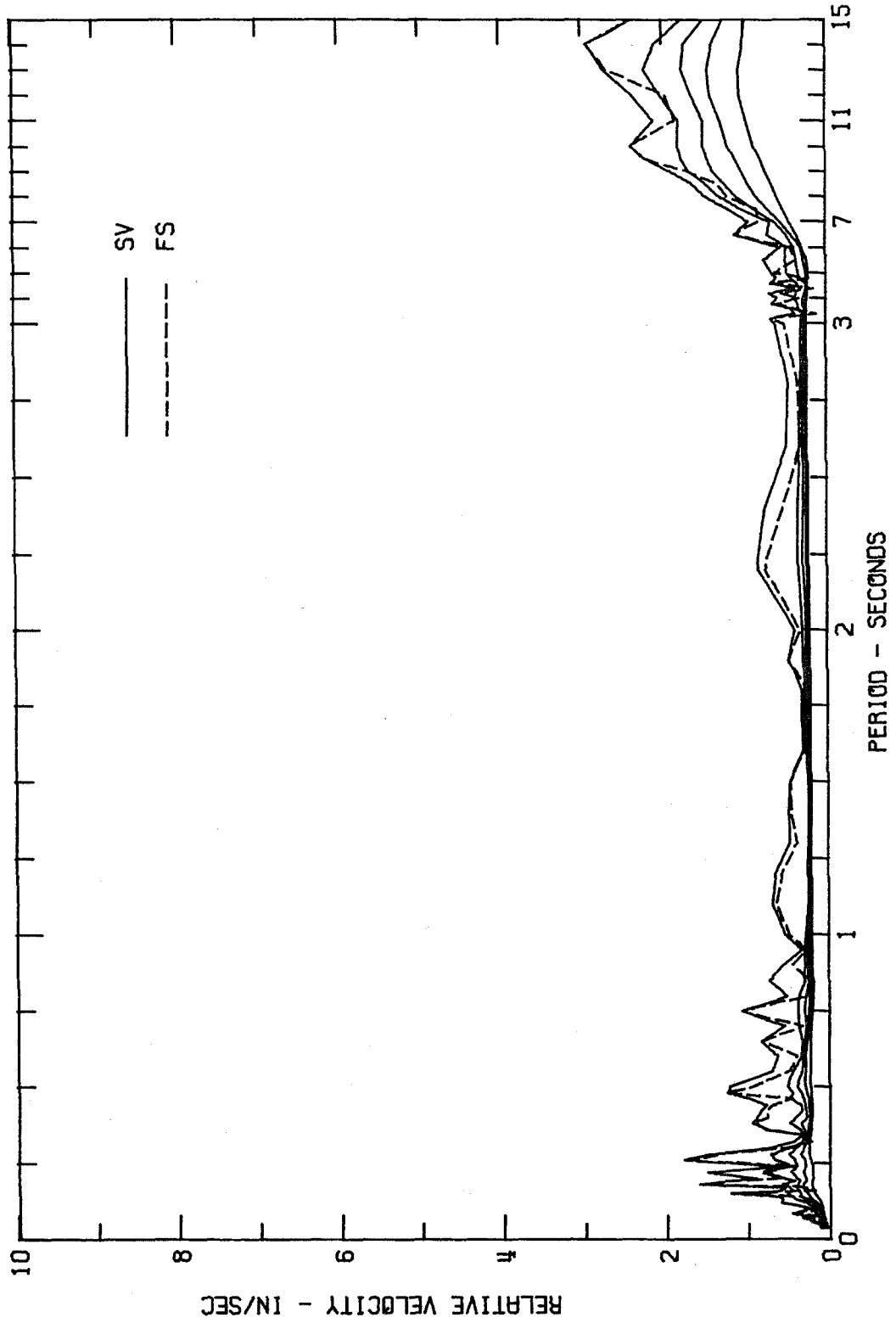
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RELATIVE VELOCITY RESPONSE SPECTRUM

IMPERIAL VALLEY EARTHQUAKE APR 12, 1938 - 0825 PST

111T274 38.001.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

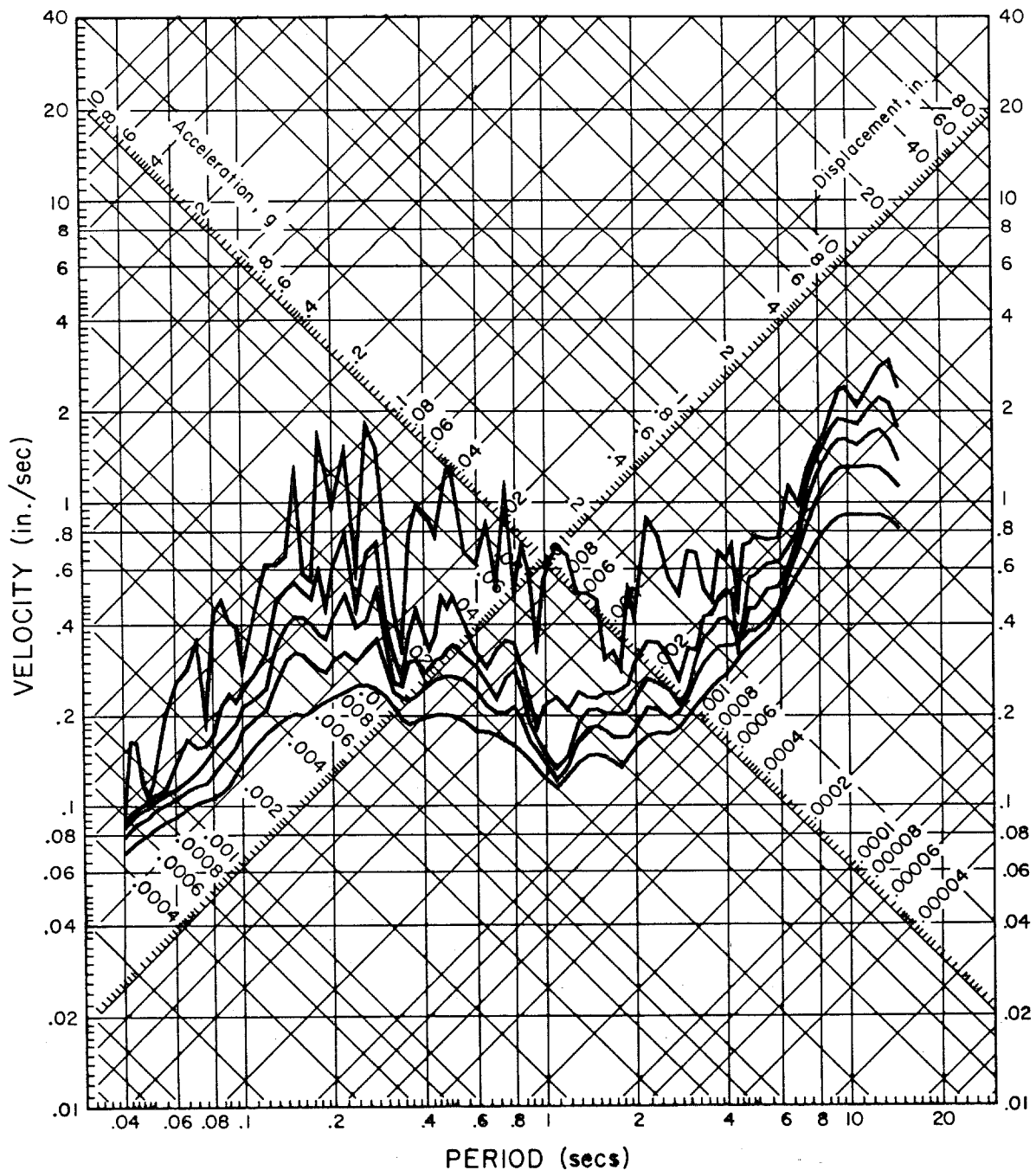


RESPONSE SPECTRUM

IMPERIAL VALLEY EARTHQUAKE APR 12, 1938 - 0825 PST

IIIT274 38.001.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IMPERIAL VALLEY EARTHQUAKE APR 12, 1938 - 0825 PST
 IIII274 38.001. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

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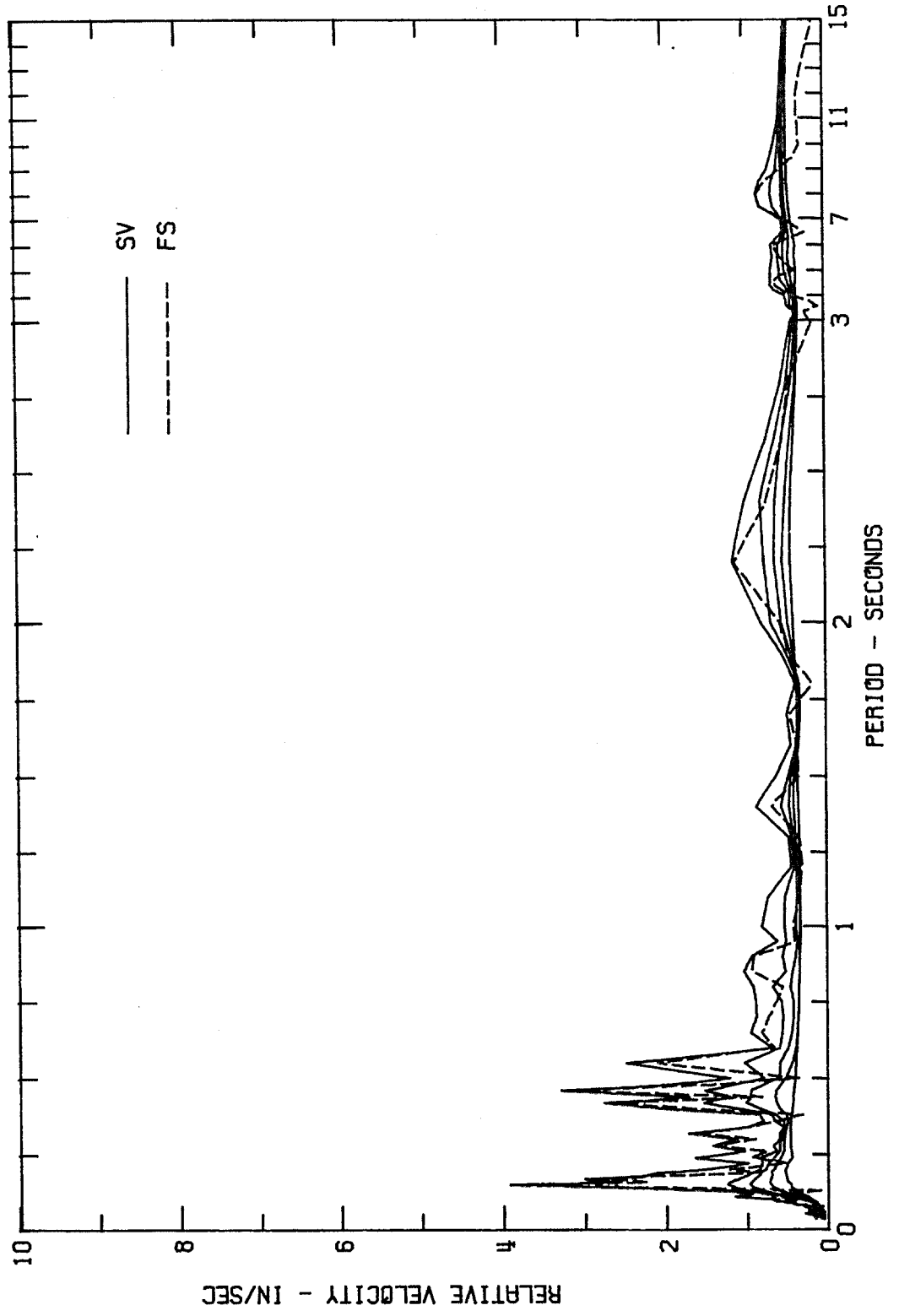
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III 1274 38.001. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
					DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT
																	DAMPING = 20 PER CENT
0.75	108-2	130-3	108-2	237-4	109-2	419-4	394-3	760-5	351-3	315-4	317-3	577-5	264-3	240-4	256-3	450-5	201-3
0.80	263-3	653-4	521-3	104-4	513-3	439-4	388-3	705-5	344-3	356-4	297-3	573-5	279-3	270-4	243-3	450-5	212-3
0.85	230-3	976-4	743-3	138-4	722-3	380-4	301-3	540-5	281-3	318-4	254-3	456-5	235-3	255-4	226-3	378-5	189-3
0.90	449-3	831-4	565-3	105-4	580-3	318-4	293-3	402-5	222-3	266-4	251-3	341-5	185-3	232-4	232-3	312-5	162-3
0.95	285-3	512-4	338-3	580-5	338-3	272-4	305-3	309-5	180-3	250-4	264-3	287-5	165-3	228-4	235-3	276-5	151-3
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1111275
RELATIVE VELOCITY RESPONSE SPECTRUM
IMPERIAL VALLEY EARTHQUAKE JUNE 5, 1938 - 1842 PST
38.003.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

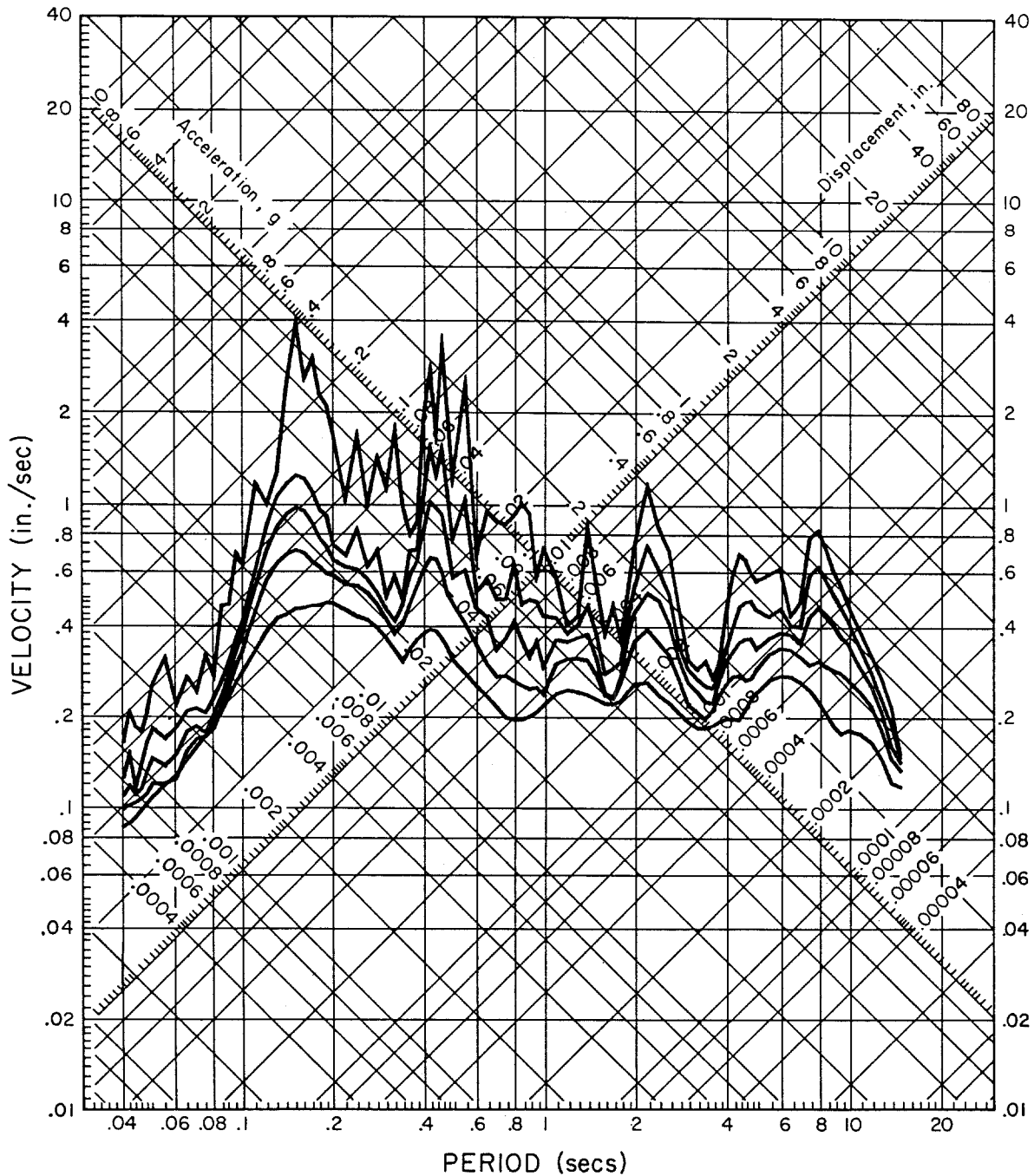


RESPONSE SPECTRUM

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IIIT275 38.003.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

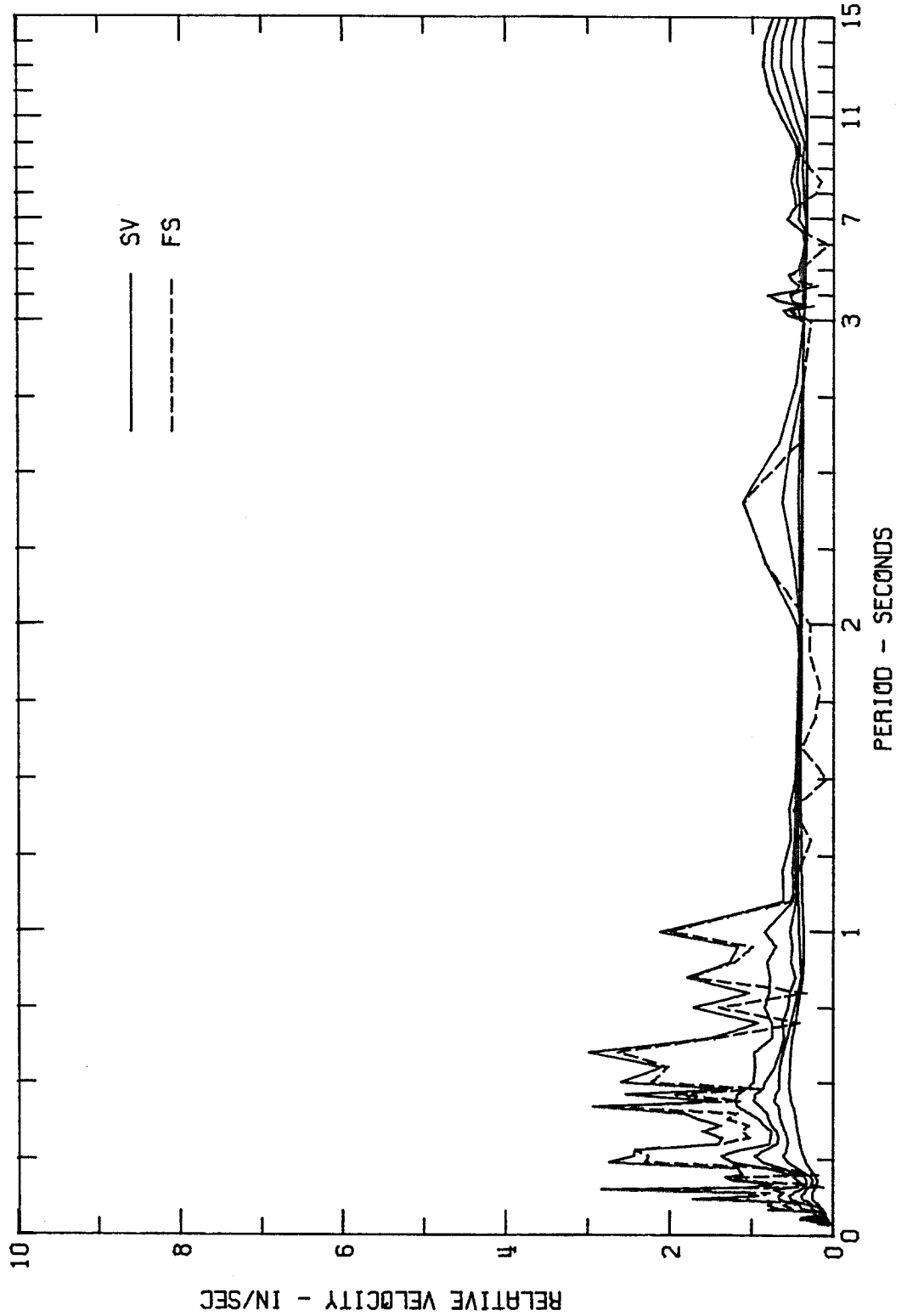
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
IMPERIAL VALLEY EARTHQUAKE JUNE 5, 1938 - 1842 PST
111T275 38.003.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

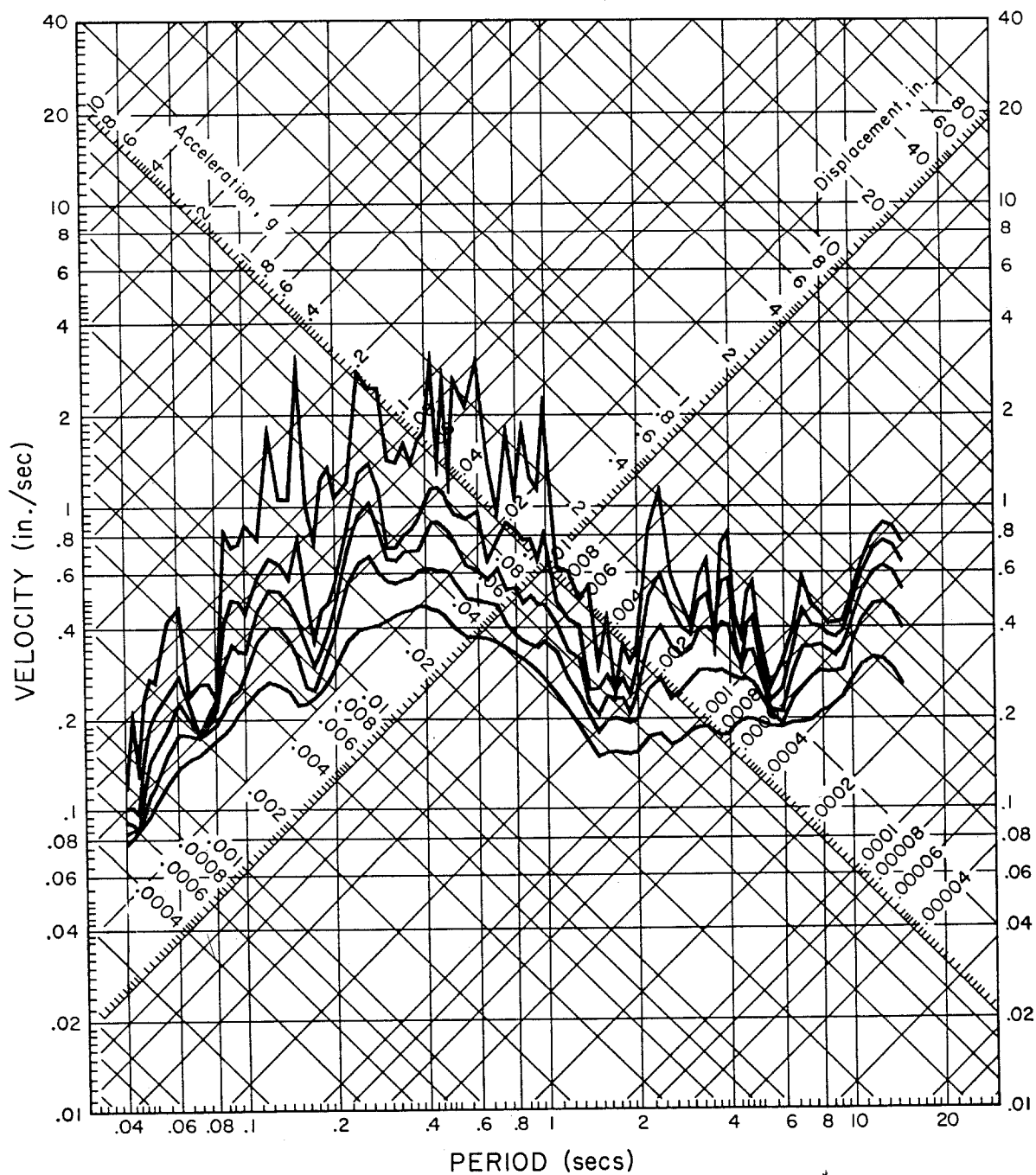


RESPONSE SPECTRUM

IMPERIAL VALLEY EARTHQUAKE JUNE 5, 1938 - 1842 PST

IIIT275 38.003.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IMPERIAL VALLEY EARTHQUAKE JUNE 5, 1938 - 1844 PST
 III1275 38.003. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

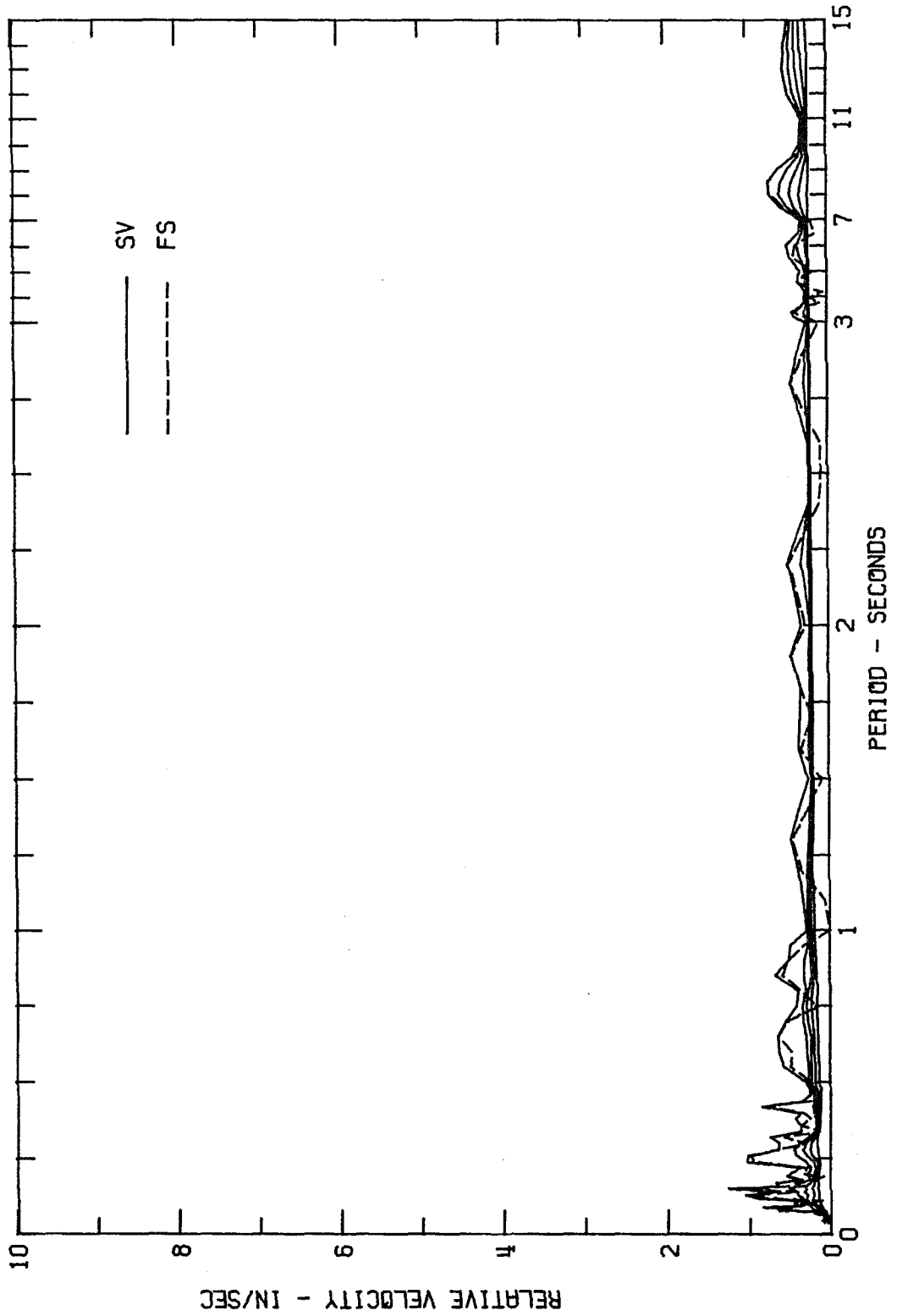
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0.550	263-2	286-3	300-2	812-4	299-2	915-4	975-3	260-4	959-3	586-4	667-3	168-4	614-3	467-4	620-3	135-4	489-3	352-4	536-3	111-4	369-3
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IIIT275 38.003. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT CCMP EAST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
0.75	141-2	208-3	172-2	379-4	174-2	105-3	857-3	191-4	881-3	631-4	565-3	115-4	529-3	485-4	486-3	912-5	406-3	406-4	446-3	875-5	340-3	0.80	338-3	138-3	103-2	221-4	108-2	107-3	794-3	171-4	841-3	689-4	549-3	110-4	541-3	377-3	414-4	413-3	804-5	325-3	0.85	175-2	243-3	180-2	345-4	180-2	104-3	774-3	649-4	477-3	924-5	479-3	734-5	359-3	423-4	386-3	738-5	313-3	0.90	121-2	176-3	127-2	222-4	123-2	111-3	829-3	140-4	779-3	727-4	536-3	924-5	507-3	662-5	349-3	427-4	374-3	677-5	298-3	0.95	997-3	171-3	117-2	194-4	113-2	100-3	710-3	114-4	667-3	717-4	513-3	817-5	474-3	597-5	349-3	428-4	376-3	622-5	283-3	1.00	201-2	336-3	213-2	343-4	211-2	128-3	855-3	132-4	809-3	754-4	468-3	776-5	474-3	597-5	358-3	427-4	379-3	571-5	268-3	1.10	531-3	109-3	627-3	927-5	626-3	843-4	507-3	713-5	481-3	713-4	468-3	606-5	407-3	500-5	328-3	417-4	394-3	485-5	238-3	1.20	436-3	116-3	637-3	825-5	608-3	807-4	519-3	573-5	422-3	634-4	470-3	454-5	332-3	512-4	446-3	374-5	268-3	402-4	404-3	414-5	210-3	1.30	281-3	103-3	530-3	626-5	500-3	834-4	480-3	505-5	403-3	650-4	467-3	398-5	314-3	447-3	309-5	237-3	387-4	409-3	356-5	187-3	1.40	509-3	121-3	556-3	634-5	545-3	552-4	473-3	288-5	247-3	634-4	462-3	265-5	224-3	454-4	445-3	251-5	203-3	369-4	411-3	309-5	165-3	1.50	886-4	707-4	471-3	321-5	296-3	596-4	465-3	271-5	249-3	489-4	456-3	225-5	204-3	428-4	441-3	203-5	179-3	354-4	412-3	271-5	148-3	1.60	404-3	108-3	462-3	434-5	426-3	707-4	457-3	282-5	245-3	625-4	443-3	223-5	231-3	541-4	432-3	198-5	196-3	390-4	411-3	239-5	153-3	1.70	226-3	646-4	453-4	443-3	316-5	350-3	778-4	441-3	245-5	271-3	667-4	436-3	211-5	232-3	566-4	426-3	183-5	197-3	439-4	407-3	191-5	153-3	1.80	172-3	100-3	444-3	443-3	316-5	350-3	778-4	441-3	245-5	271-3	667-4	436-3	211-5	232-3	566-4	426-3	183-5	197-3	439-4	407-3	191-5	153-3	1.90	304-3	923-4	436-3	426-5	305-3	847-3	468-3	275-5	339-3	627-4	429-3	179-5	207-3	584-4	421-3	169-5	193-3	460-4	404-3	161-5	154-3	2.00	298-3	107-3	468-3	426-5	339-3	847-3	468-3	275-5	339-3	627-4	429-3	179-5	207-3	584-4	421-3	169-5	193-3	460-4	404-3	161-5	154-3	2.20	845-3	296-3	847-3	426-5	847-3	178-3	508-3	377-5	509-3	627-4	429-3	179-5	207-3	584-4	421-3	169-5	193-3	460-4	404-3	161-5	154-3	2.40	430-3	244-3	672-3	369-5	590-3	192-3	538-3	231-5	398-3	143-3	385-3	218-5	345-3	955-4	391-3	148-5	230-3	672-4	380-3	112-5	170-3	2.60	373-3	214-3	464-3	320-5	482-3	177-3	386-3	231-5	398-3	143-3	385-3	218-5	345-3	955-4	391-3	148-5	230-3	672-4	380-3	112-5	170-3	2.80	279-3	194-3	379-3	280-5	407-3	180-3	379-3	205-5	491-3	199-3	431-3	200-5	391-3	146-3	374-3	148-5	286-3	950-4	372-3	105-5	186-3	3.00	431-3	300-3	573-3	299-5	589-3	250-3	508-3	250-5	491-3	199-3	431-3	200-5	391-3	146-3	374-3	148-5	286-3	950-4	372-3	105-5	186-3	3.20	556-3	360-3	635-3	318-5	665-3	278-3	525-3	246-5	514-3	215-3	441-3	191-5	397-3	156-3	369-3	139-5	288-3	101-3	369-3	986-6	187-3	3.40	256-3	198-3	427-3	156-5	347-3	230-3	394-3	182-5	402-3	214-3	386-3	169-5	374-3	163-3	366-3	130-5	284-3	102-3	366-3	936-6	178-3	3.60	89-3	456-3	701-3	323-5	755-3	341-3	525-3	241-5	563-3	250-3	387-3	178-5	413-3	174-3	362-3	125-5	287-3	103-3	363-3	895-6	174-3	3.80	18-3	521-3	818-3	333-5	818-3	468-3	168-5	435-3	241-5	563-3	250-3	387-3	178-5	413-3	174-3	362-3	125-5	287-3	103-3	363-3	895-6	174-3	4.00	434-3	291-3	468-3	168-5	435-3	249-3	383-3	144-5	576-3	256-3	391-3	164-5	403-3	177-3	359-3	114-5	278-3	113-3	360-3	853-6	177-3	4.20	202-3	258-3	435-3	136-5	369-3	203-3	396-3	107-5	291-3	208-3	370-3	110-5	297-3	187-3	354-3	100-5	267-3	126-3	358-3	812-6	189-3	4.40	520-3	381-3	520-3	184-5	520-3	300-3	417-3	145-5	409-3	243-3	389-3	118-5	332-3	196-3	353-3	968-6	268-3	145-3	354-3	755-6	198-3	4.60	562-3	430-3	563-3	191-5	563-3	331-3	425-3	147-5	434-3	256-3	397-3	114-5	335-3	200-3	361-3	507-6	262-3	151-3	353-3	728-6	198-3	4.80	390-3	312-3	441-3	127-5	392-3	268-3	422-3	109-5	336-3	231-3	396-3	951-6	290-3	195-3	362-3	815-6	245-3	155-3	351-3	691-6	195-3	5.00	500-3	390-3	500-3	127-5	500-3	441-3	422-3	109-5	336-3	231-3	396-3	951-6	290-3	195-3	362-3	815-6	245-3	155-3	351-3	691-6	195-3	5.20	583-4	294-3	393-3	745-6	251-3	199-3	382-3	674-6	227-3	187-3	366-3	935-6	213-3	179-3	345-3	619-6	205-3	164-3	348-3	603-6	187-3	5.40	580-3	403-3	395-3	977-6	390-3	350-3	346-3	851-6	339-3	293-3	339-3	718-6	283-3	238-3	340-3	596-6	230-3	199-3	343-3	556-6	192-3	5.60	585-3	403-3	395-3	977-6	390-3	350-3	346-3	851-6	339-3	293-3	339-3	718-6	283-3	238-3	340-3	596-6	230-3	199-3	343-3	556-6	192-3	5.80	471-3	565-3	499-3	102-5	473-3	511-3	444-3	106-5	458-3	382-3	351-3	802-6	343-3	283-3	338-3	620-6	254-3	216-3	341-3	519-6	194-3	6.00	580-3	403-3	395-3	977-6	390-3	350-3	346-3	851-6	339-3	293-3	339-3	718-6	283-3	238-3	340-3	596-6	230-3	199-3	343-3	556-6	192-3	6.20	585-3	403-3	395-3	977-6	390-3	350-3	346-3	851-6	339-3	293-3	339-3	718-6	283-3	238-3	340-3	596-6	230-3	199-3	343-3	556-6	192-3	6.40	471-3	565-3	499-3	102-5	473-3	511-3	444-3	106-5	458-3	382-3	351-3	802-6	343-3	283-3	338-3	620-6	254-3	216-3	341-3	519-6	194-3	6.60	580-3	403-3	395-3	977-6	390-3	350-3	346-3	851-6	339-3	293-3	339-3	718-6	283-3	238-3	340-3	596-6	2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RELATIVE VELOCITY RESPONSE SPECTRUM
IMPERIAL VALLEY EARTHQUAKE JUNE 5, 1938 - 1842 PST
1111275 38.003.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

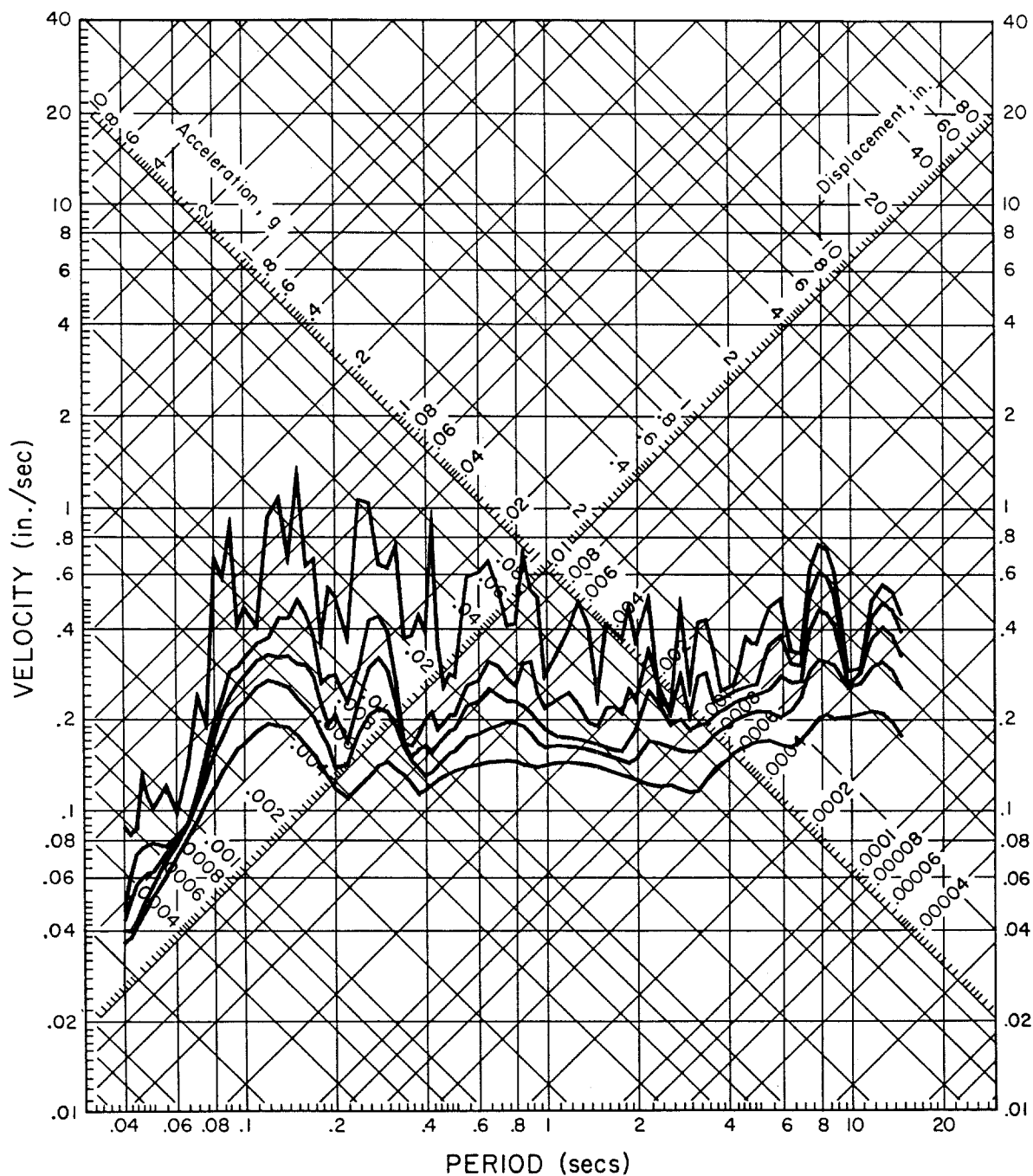


RESPONSE SPECTRUM

IMPERIAL VALLEY EARTHQUAKE JUNE 5, 1938 - 1842 PST

111T275 38.003.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

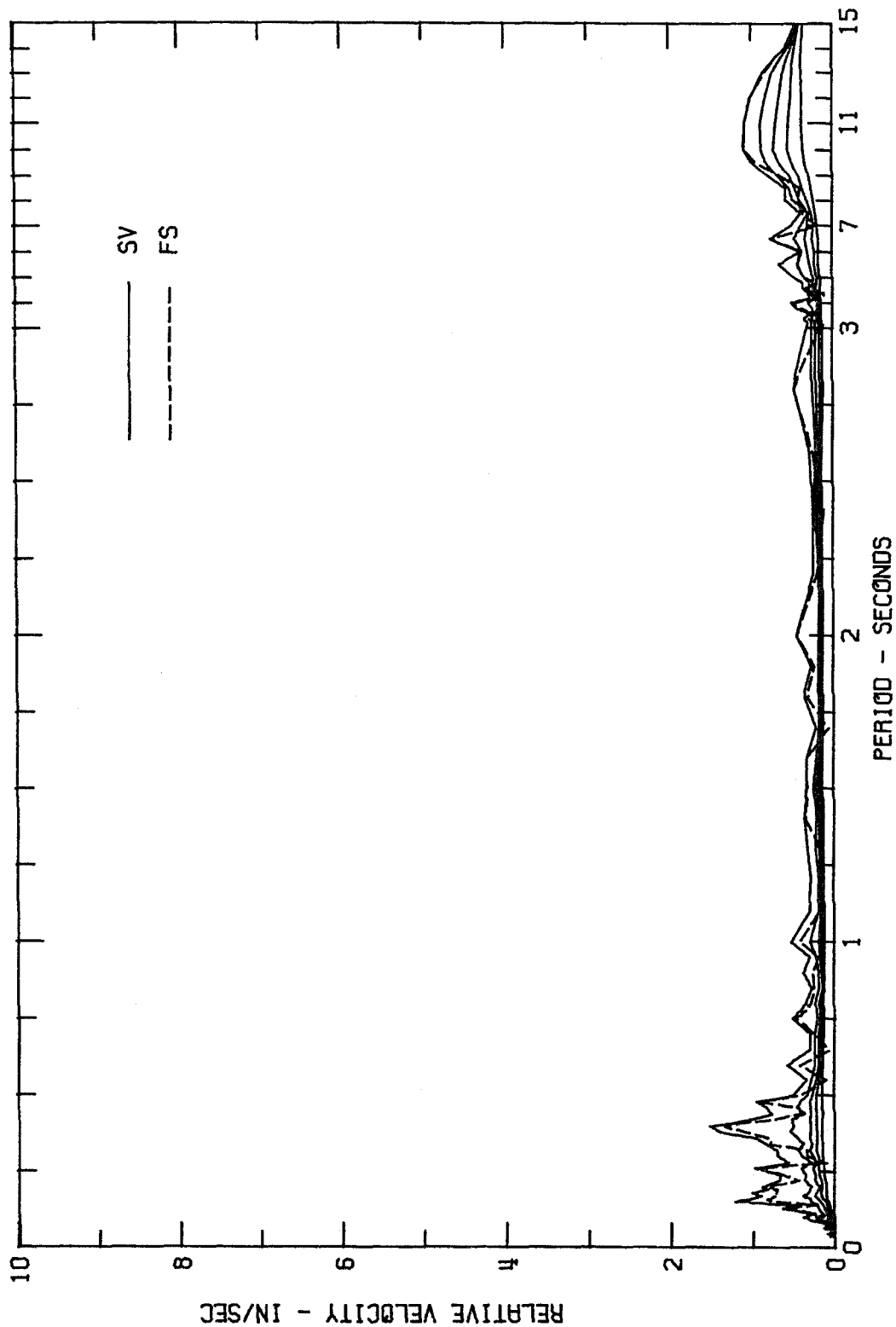


IIIT275 38.003. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT					
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.75	159-3	485-4	427-3	883-5	407-3	323-4	354-3	588-5	271-3	272-4	302-3	498-5	228-3	231-4	241-3	434-5	194-3	171-4	171-3	360-5	144-3
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0.85	594-3	952-4	689-3	134-4	704-3	412-4	322-3	586-5	305-3	298-4	227-3	424-5	219-3	253-4	198-3	373-5	187-3	189-4	162-3	321-5	139-3
0.90	515-3	763-4	518-3	963-5	532-3	443-4	325-3	561-5	309-3	298-4	242-3	379-5	208-3	254-4	215-3	335-5	177-3	199-4	174-3	304-5	138-3
0.95	322-3	763-4	496-3	865-5	504-3	361-4	275-3	410-5	239-3	293-4	256-3	335-5	194-3	250-4	229-3	297-5	165-3	207-4	187-3	287-5	137-3
1.00	259-5	438-4	295-3	448-5	275-3	344-4	282-3	352-5	216-3	293-4	264-3	300-5	184-3	254-4	238-3	268-5	160-3	221-4	197-3	272-5	139-3
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RELATIVE VELOCITY RESPONSE SPECTRUM
IMPERIAL VALLEY EARTHQUAKE JUNE 6, 1938 - 0437 PST
1111276 38.004.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

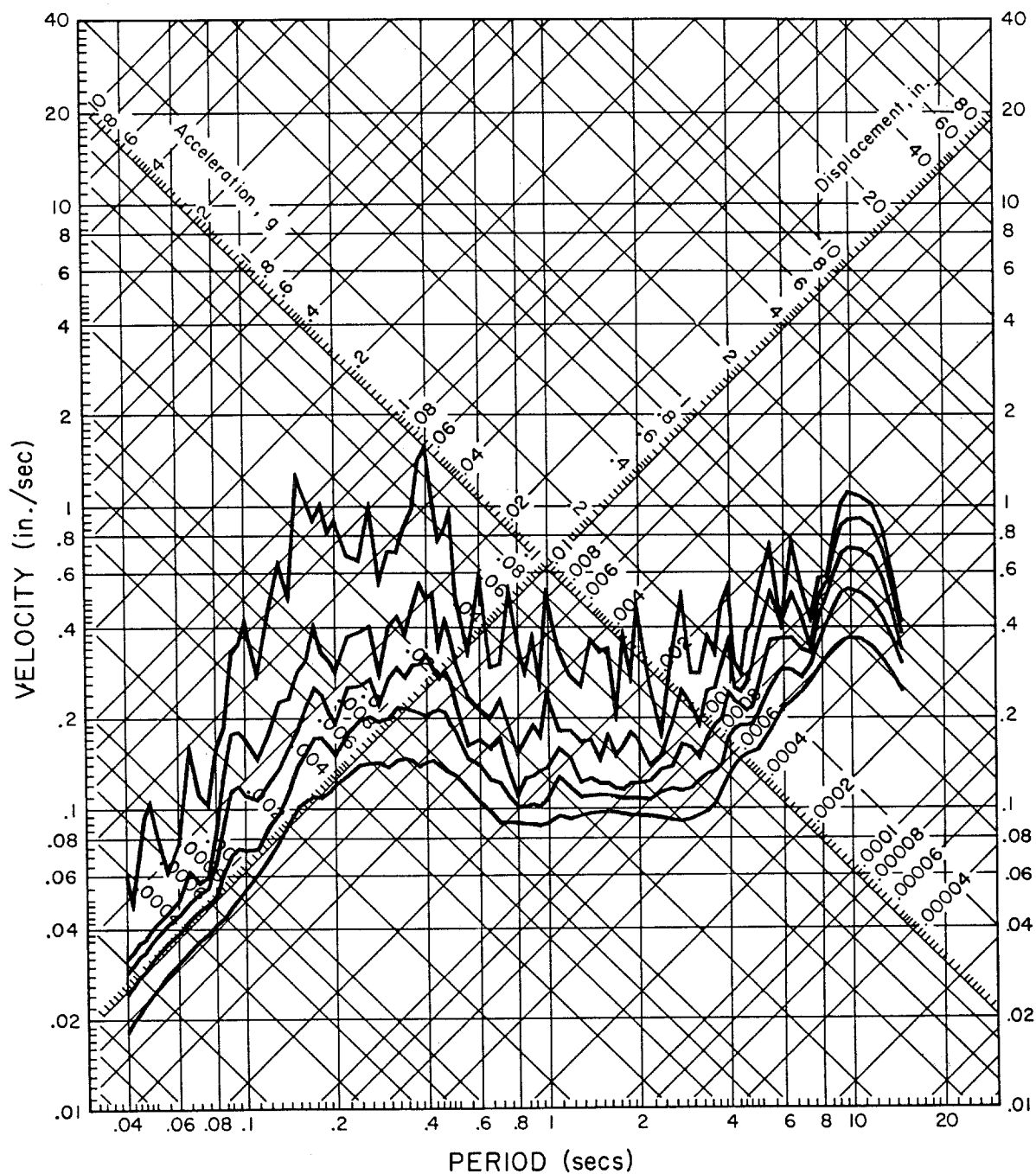


RESPONSE SPECTRUM

IMPERIAL VALLEY EARTHQUAKE JUNE 6, 1938 - 0437 PST

IIIT276 38.004.Q EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

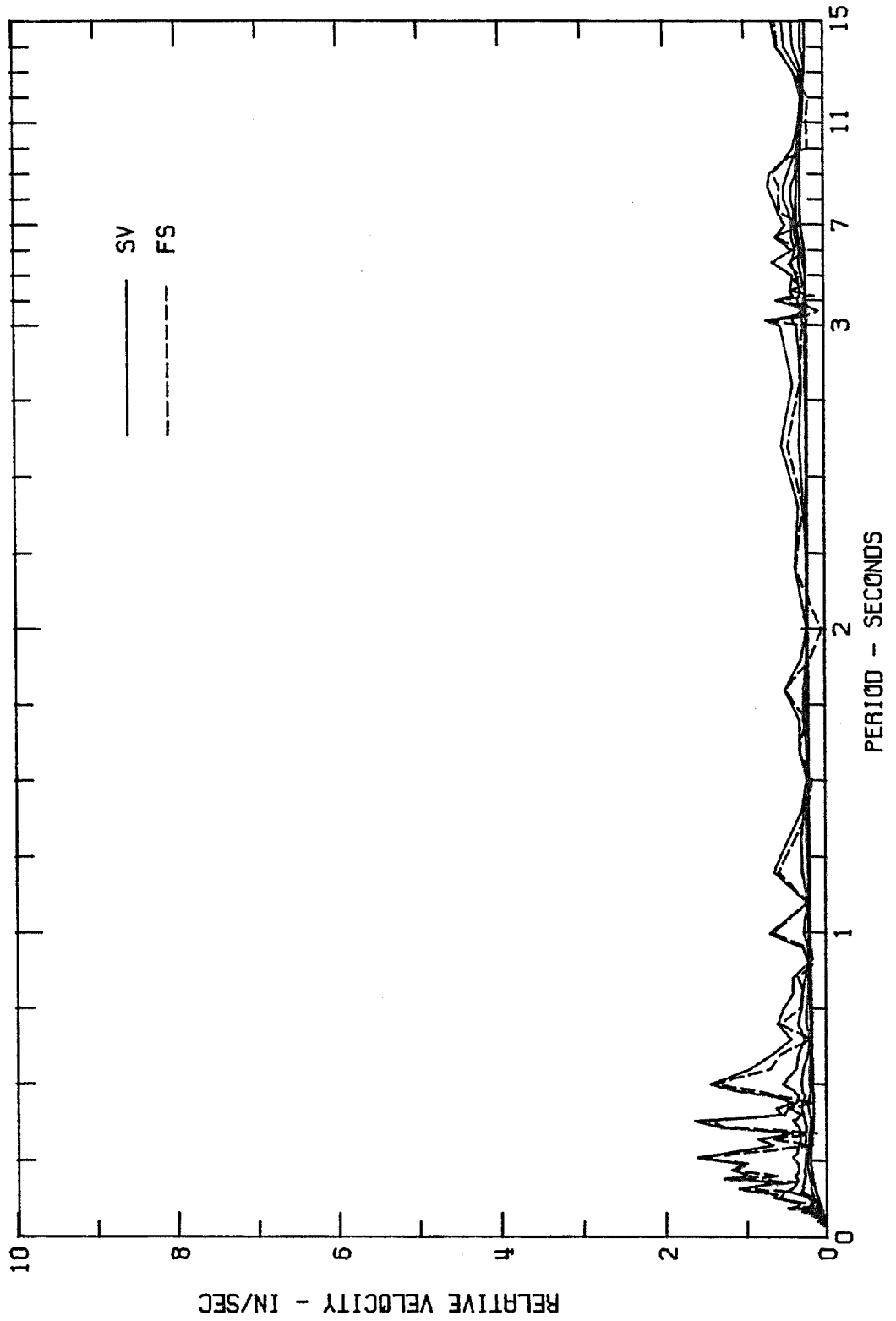


III1276 38.004. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

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1111276 38.004.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

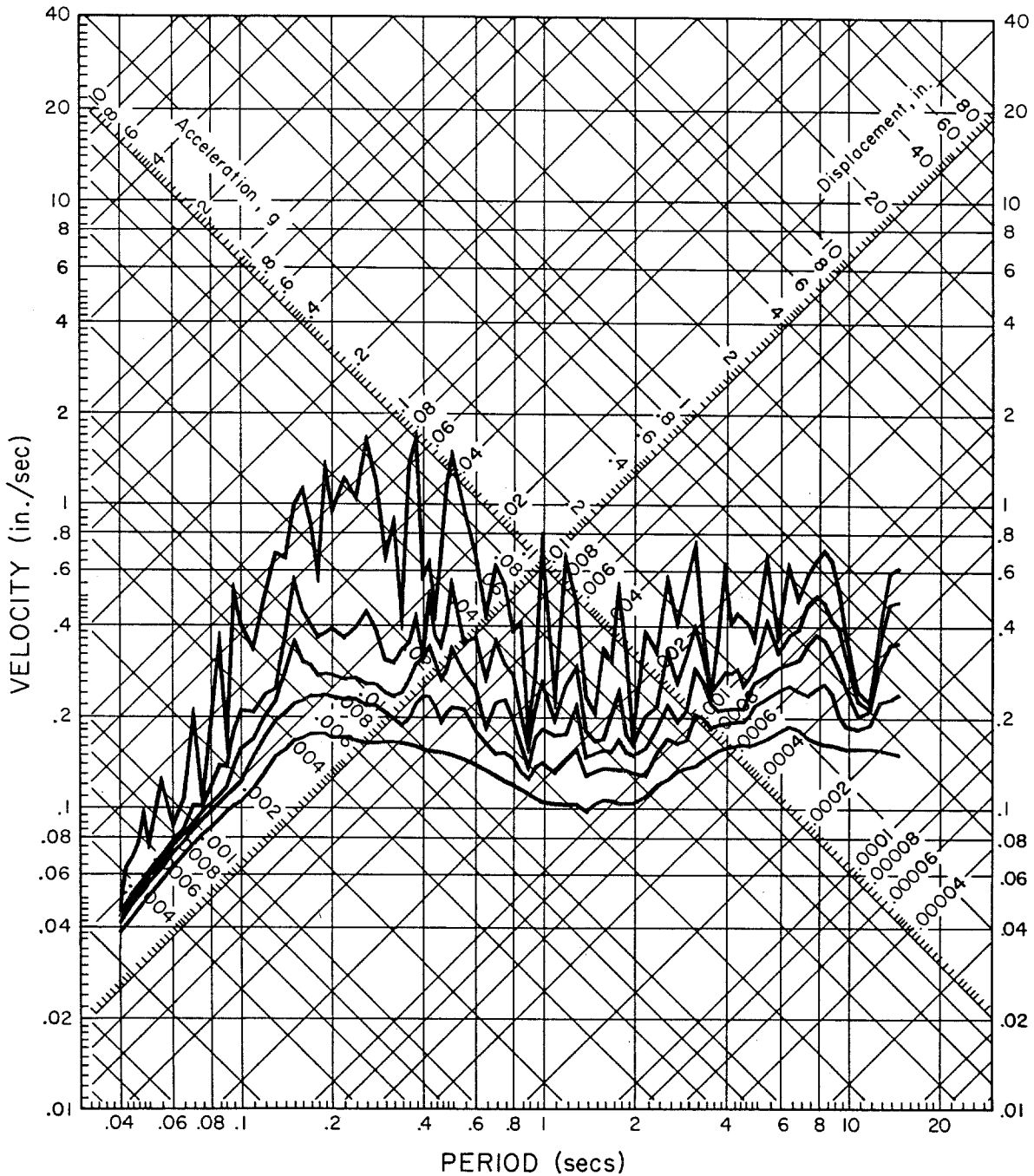


RESPONSE SPECTRUM

IMPERIAL VALLEY EARTHQUAKE JUNE 6, 1938 - 0437 PST

IIIT276 38.004.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

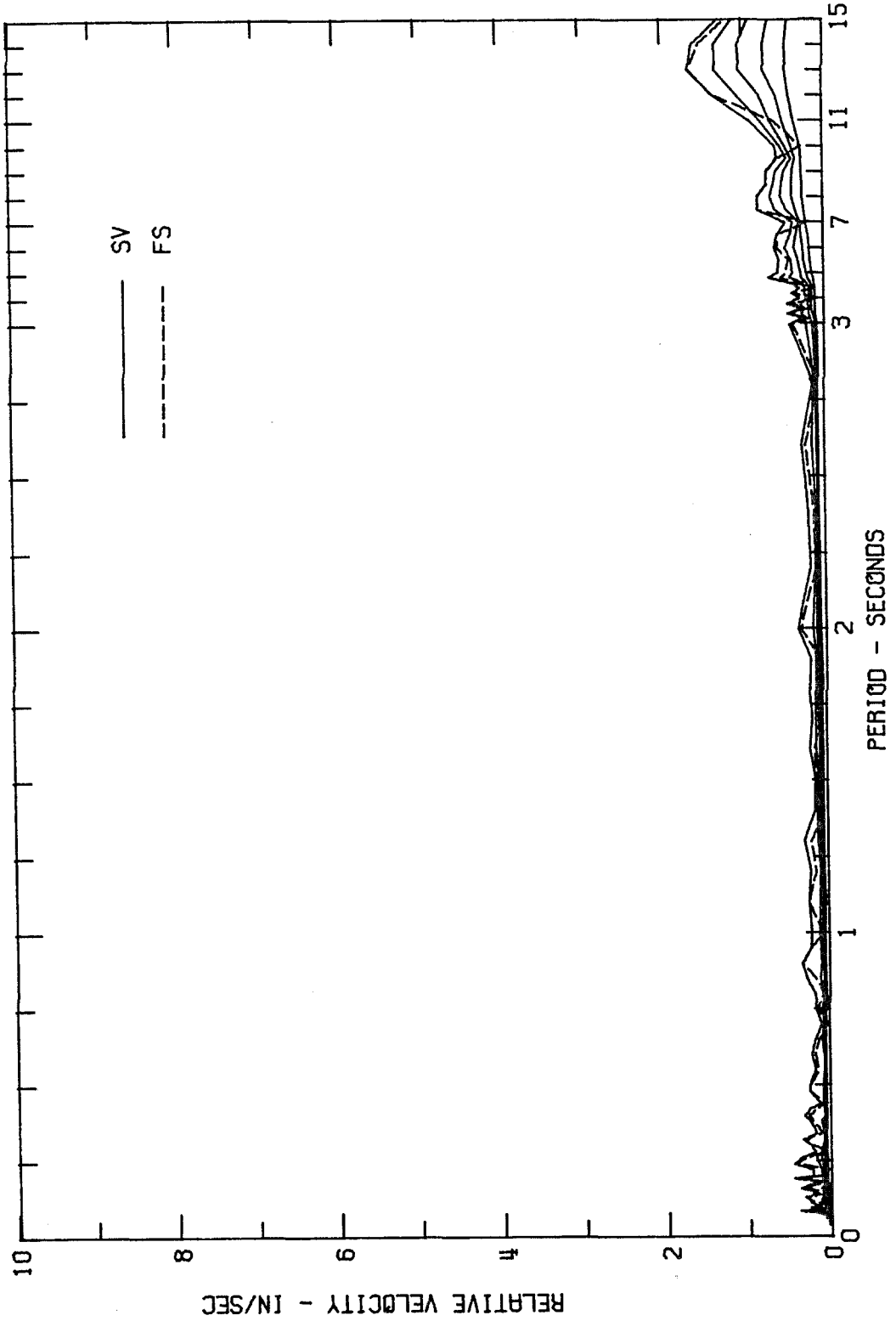
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RELATIVE VELOCITY RESPONSE SPECTRUM

IMPERIAL VALLEY EARTHQUAKE JUNE 6, 1938 - 0437 PST

1111276 38.004.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

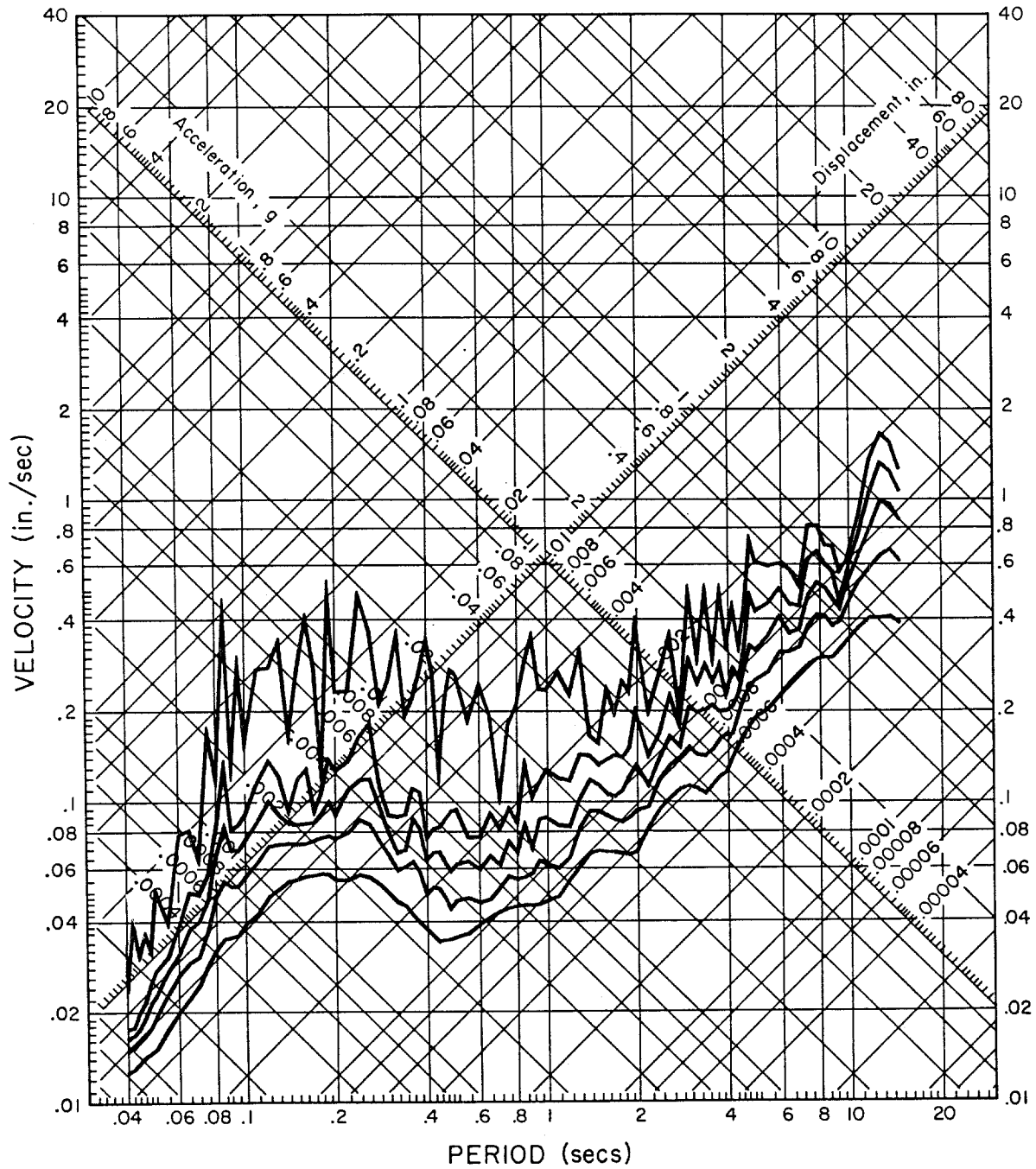


RESPONSE SPECTRUM

IMPERIAL VALLEY EARTHQUAKE JUNE 6, 1938 - 0437 PST

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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



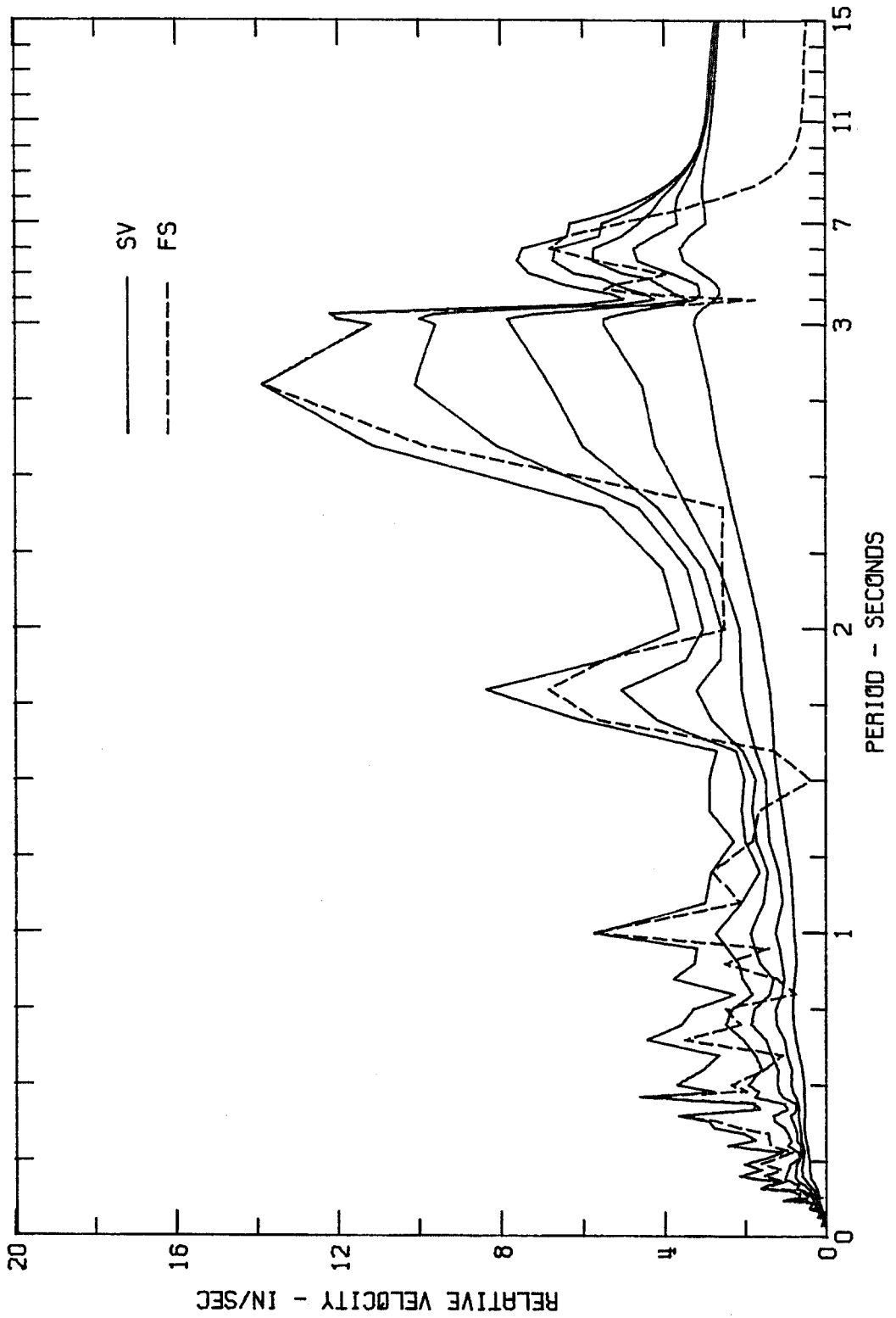
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FDR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +45.5 SEC.
11117277 40.001.1 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

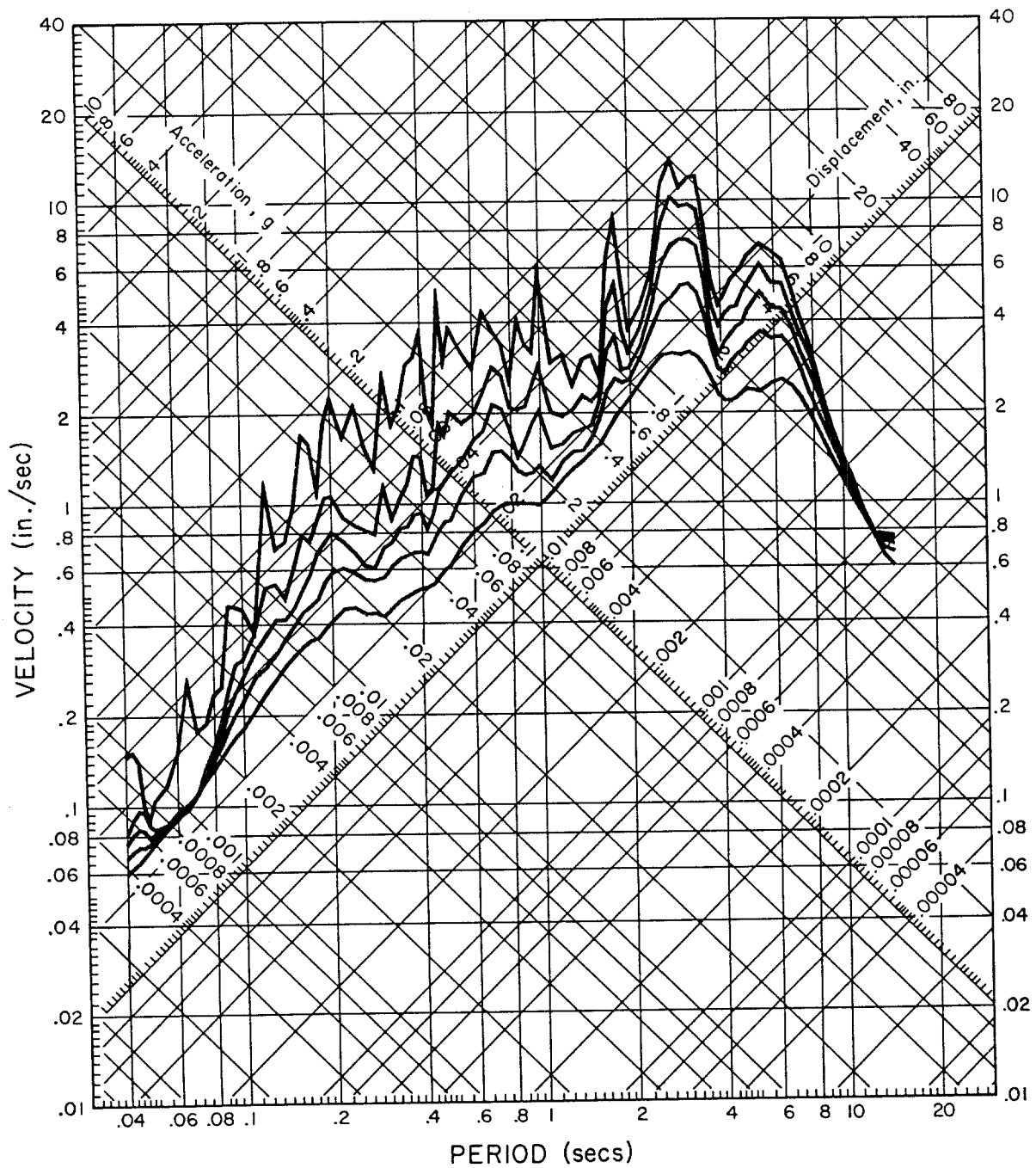


RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +45.5 SEC.

IIIT277 40.001.1 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +45.5 SEC.
 1111777 40.001.1 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

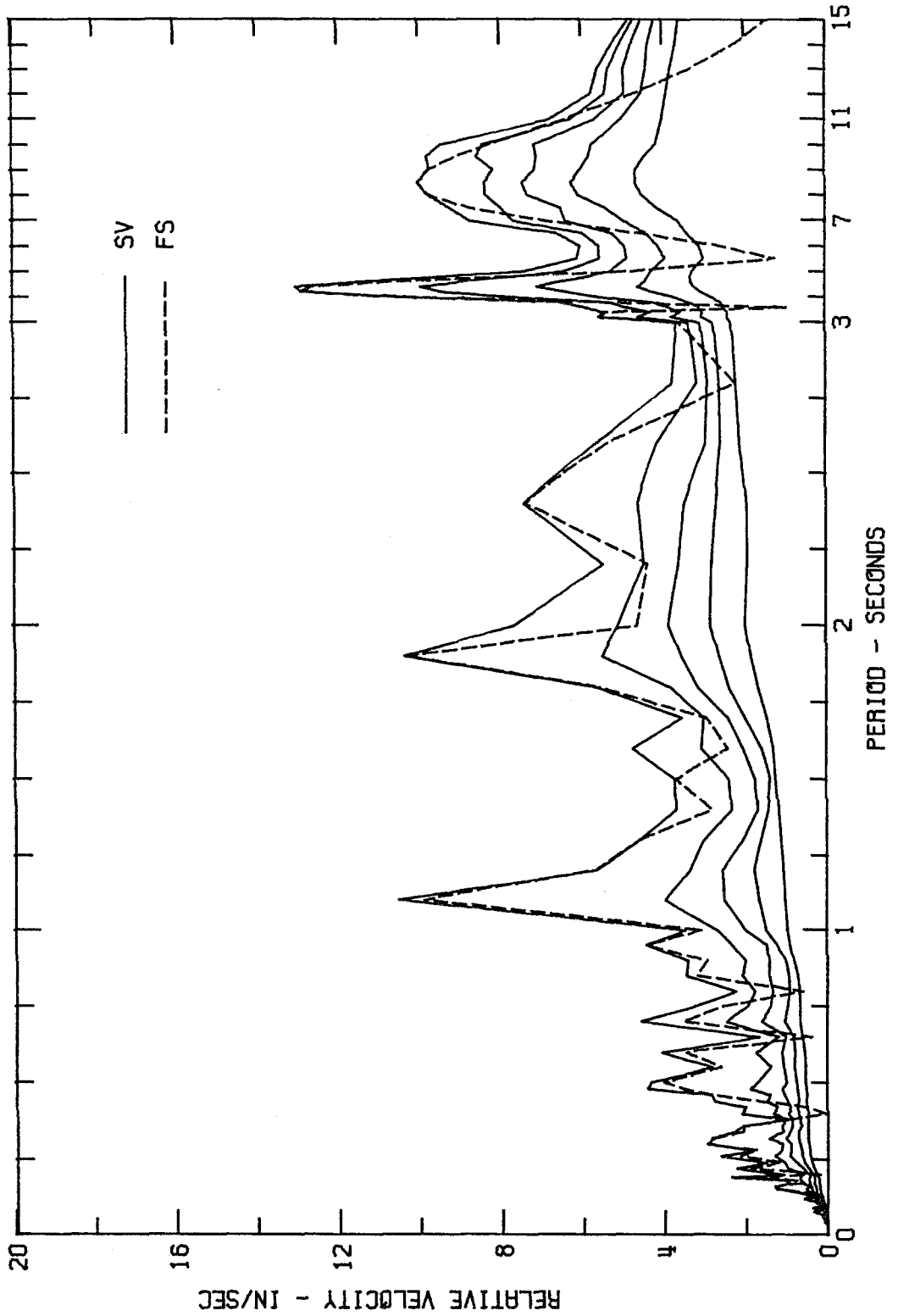
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0.044	697-4	977-6	110-3	516-4	139-3	673-6	472-4	355-4	961-4	583-6	367-4	308-4	833-4	508-6	289-4	268-4	726-4	450-6	206-4	242-4	643-4
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IIIIIT277	40-0001 J	FI	CENTRO.	IMPERIAL VALLEY	IRRIGATION DISTRICT	COMP NORTH

THE UNITS USED ARE SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT				
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RELATIVE VELOCITY RESPONSE SPECTRUM
IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +45.5 SEC.
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

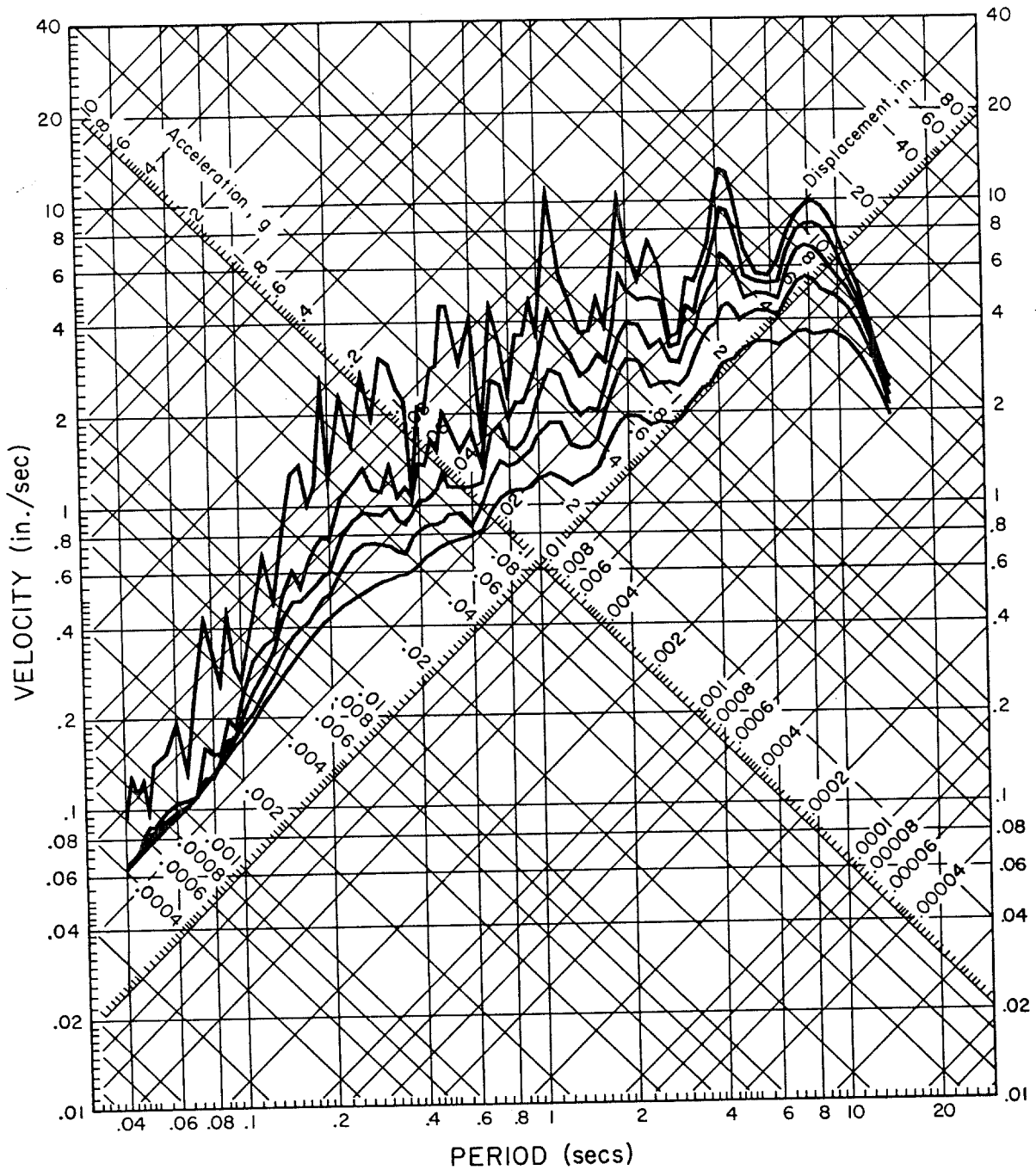


RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +45.5 SEC.

IIIT277 40.001.1 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +45.5 SEC.

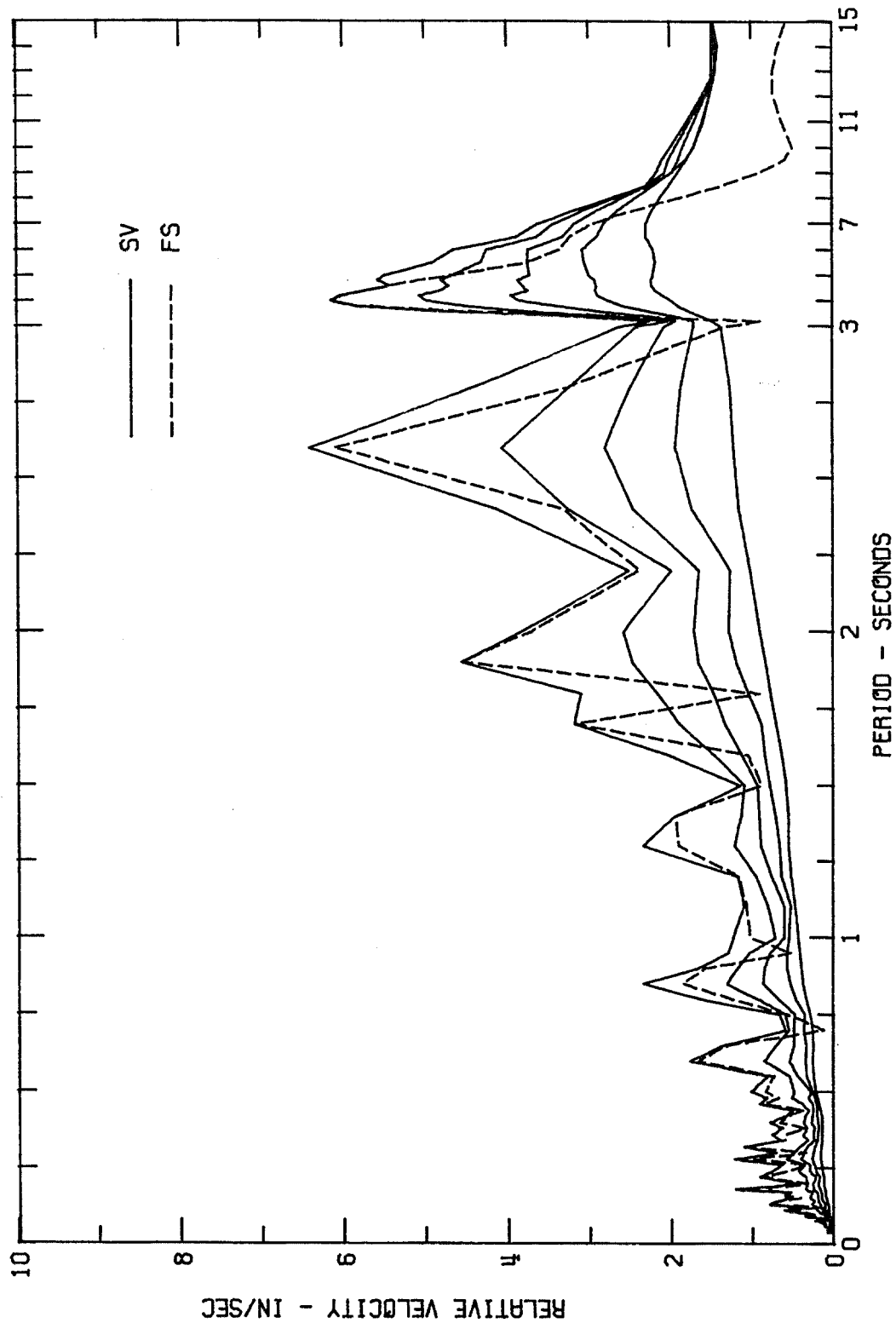
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +45.5 SEC.
111T277 40.001.1 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

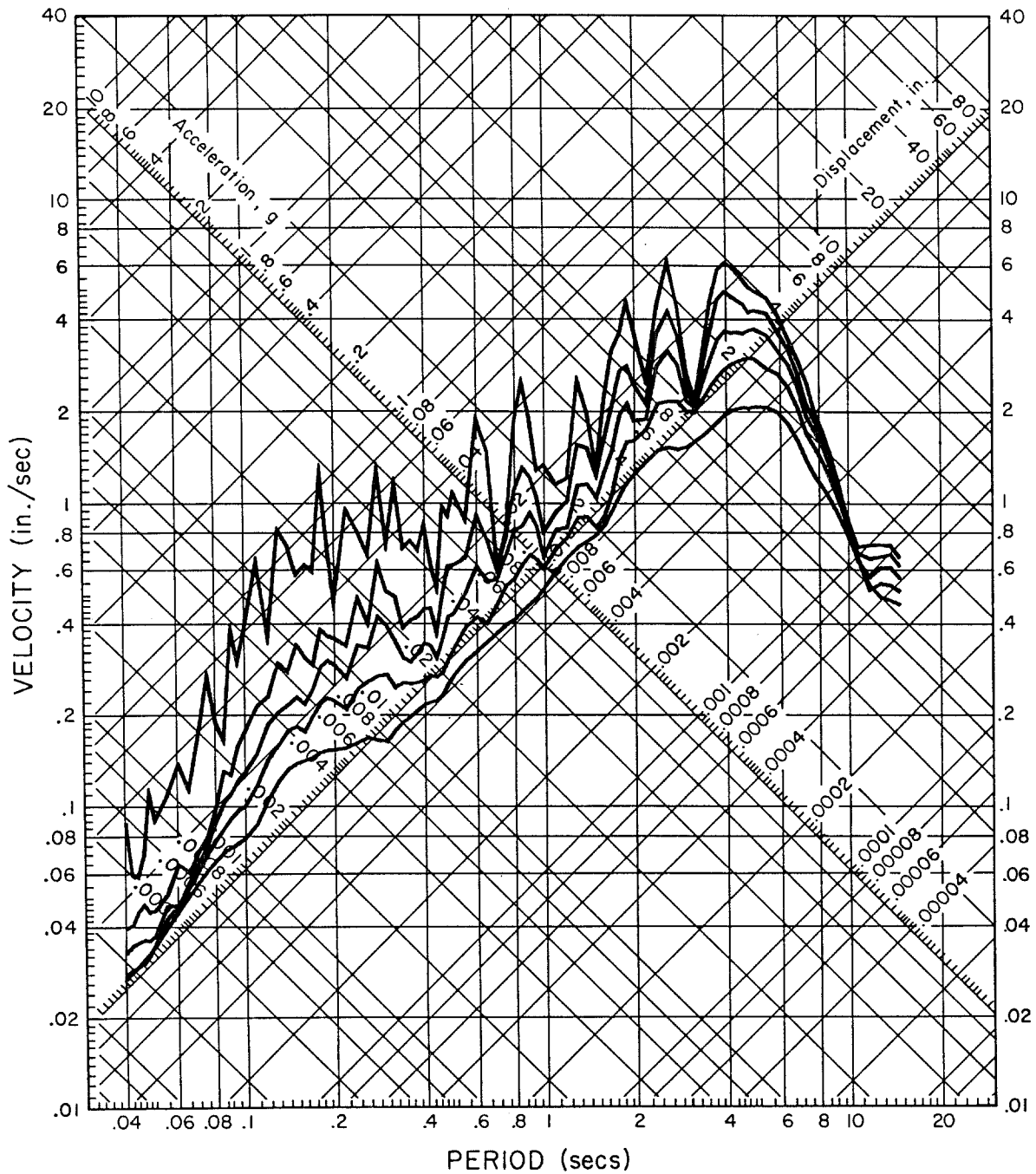


RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +45.5 SEC.

IIIT277 40.001.1 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +45.5 SEC.

1111277 40.001.1 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT CCMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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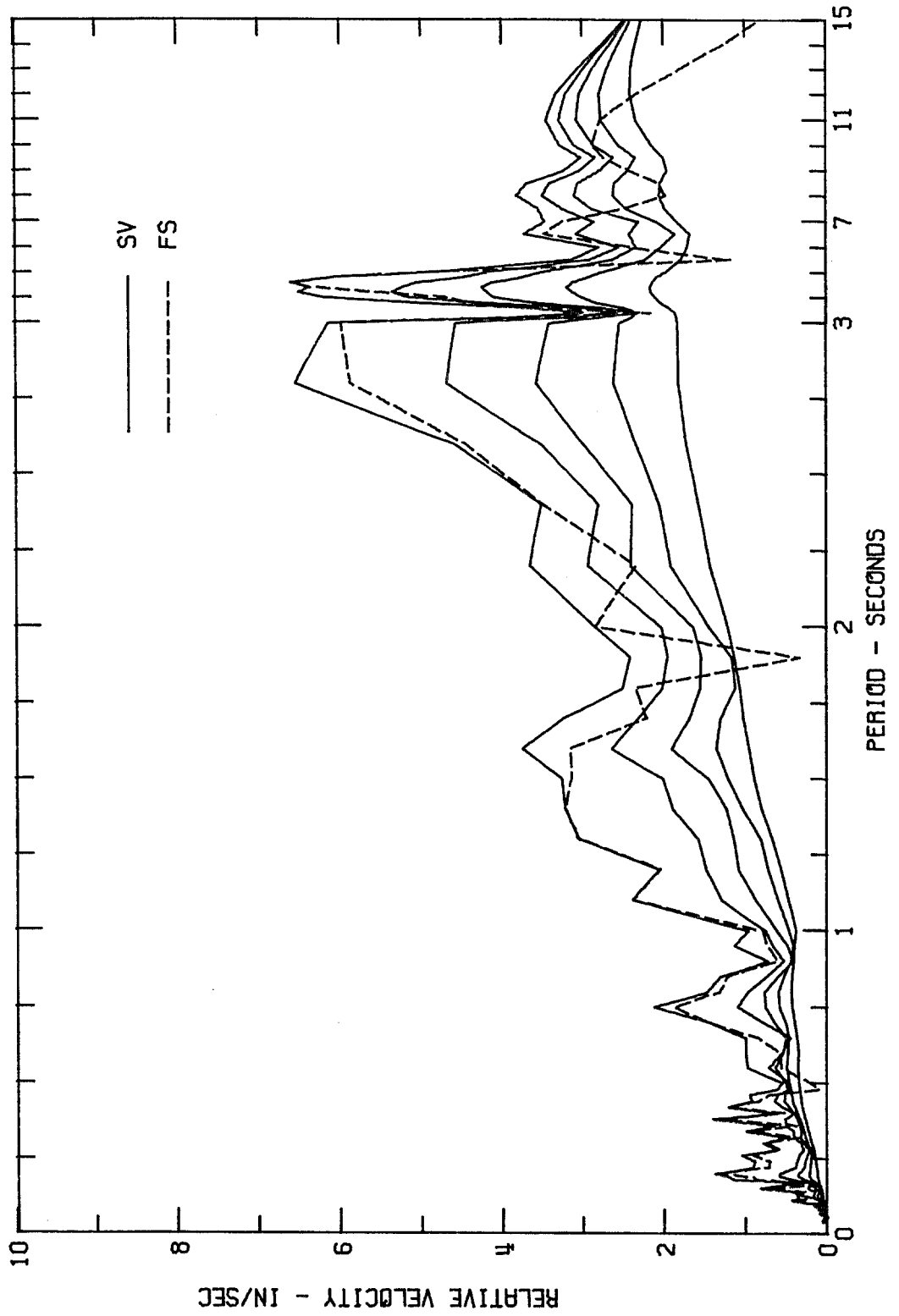
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0.85	186-2	338-3	235-2	479-4	250-2	176-3	132-2	250-4	130-2	114-3	872-3	162-4	842-3	850-4	548-3	122-4	628-3
0.90	157-2	272-3	167-2	343-4	190-2	174-3	118-2	220-4	121-2	133-3	856-3	169-4	930-3	970-4	582-3	124-4	677-3
0.95	530-3	193-3	129-2	219-4	128-2	158-3	103-2	179-4	104-2	126-3	781-3	144-4	839-3	990-4	587-3	114-4	654-3
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RELATIVE VELOCITY RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +84.0 SEC.
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

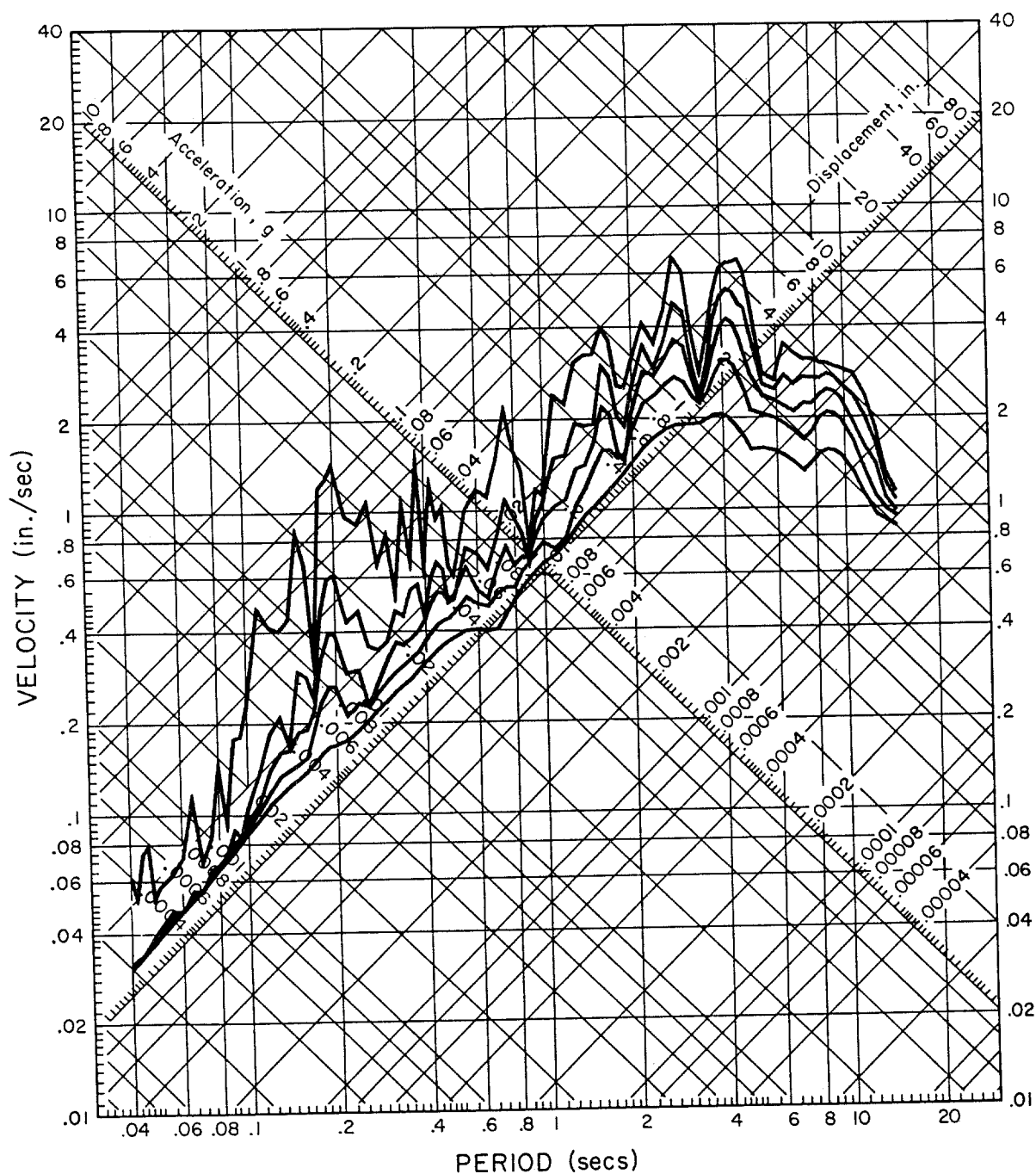


RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +84.0 SEC.

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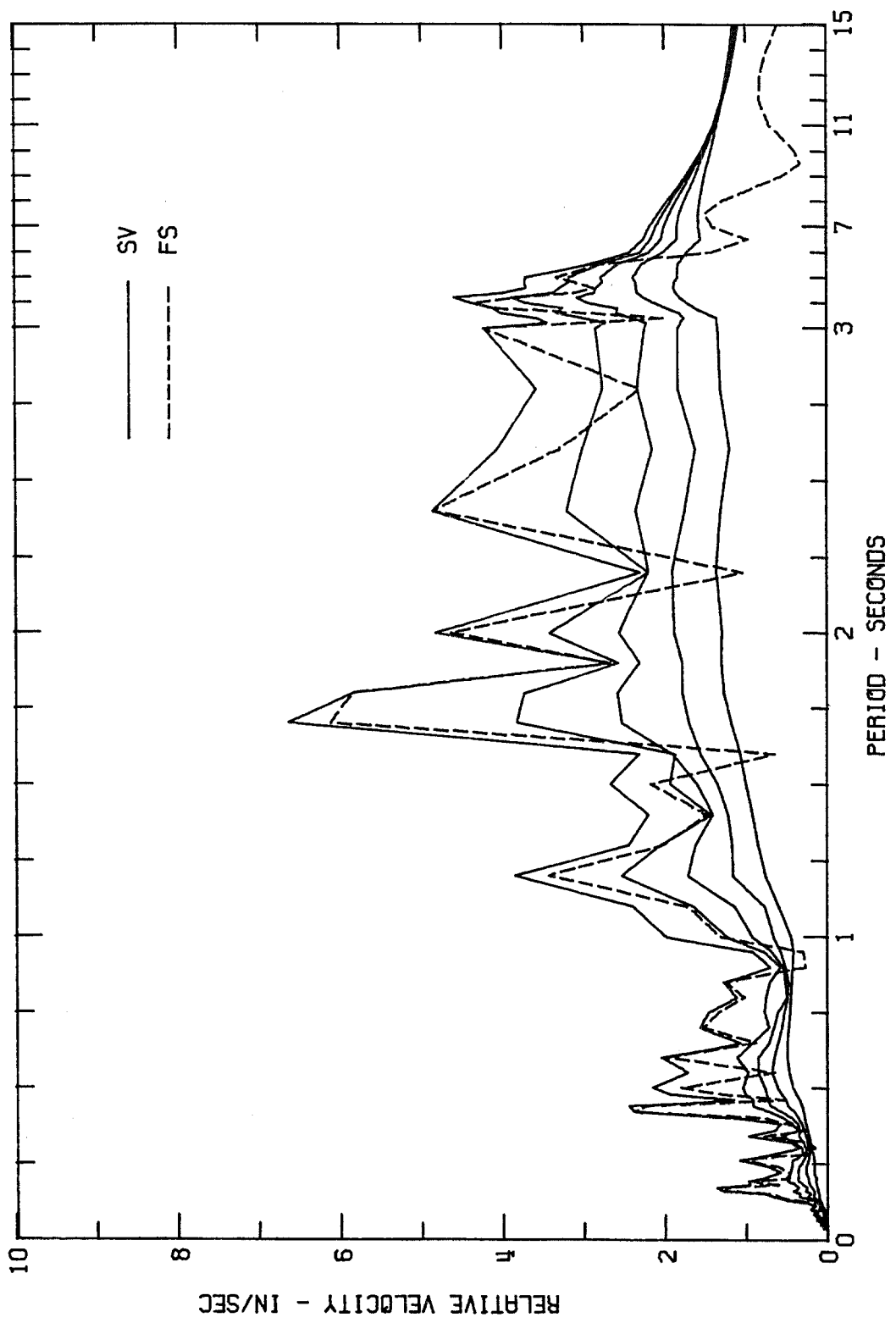
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RELATIVE VELOCITY RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +84.0 SEC.
111T278 40.001.2 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

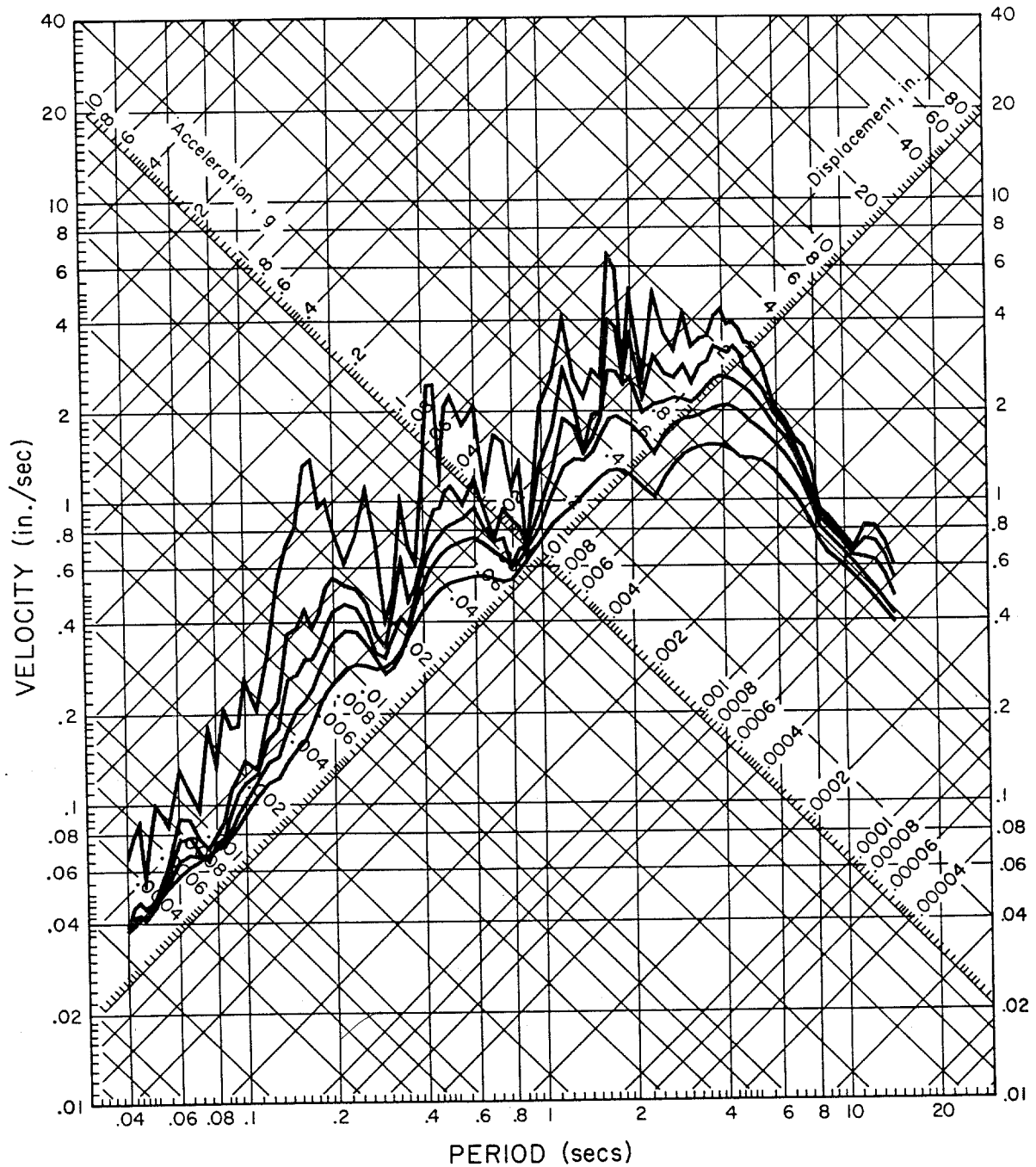


RESPONSE SPECTRUM

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IIIT278 40.001.2 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +84.0 SEC.

IIIT278 40.001.2 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT CCMP EAST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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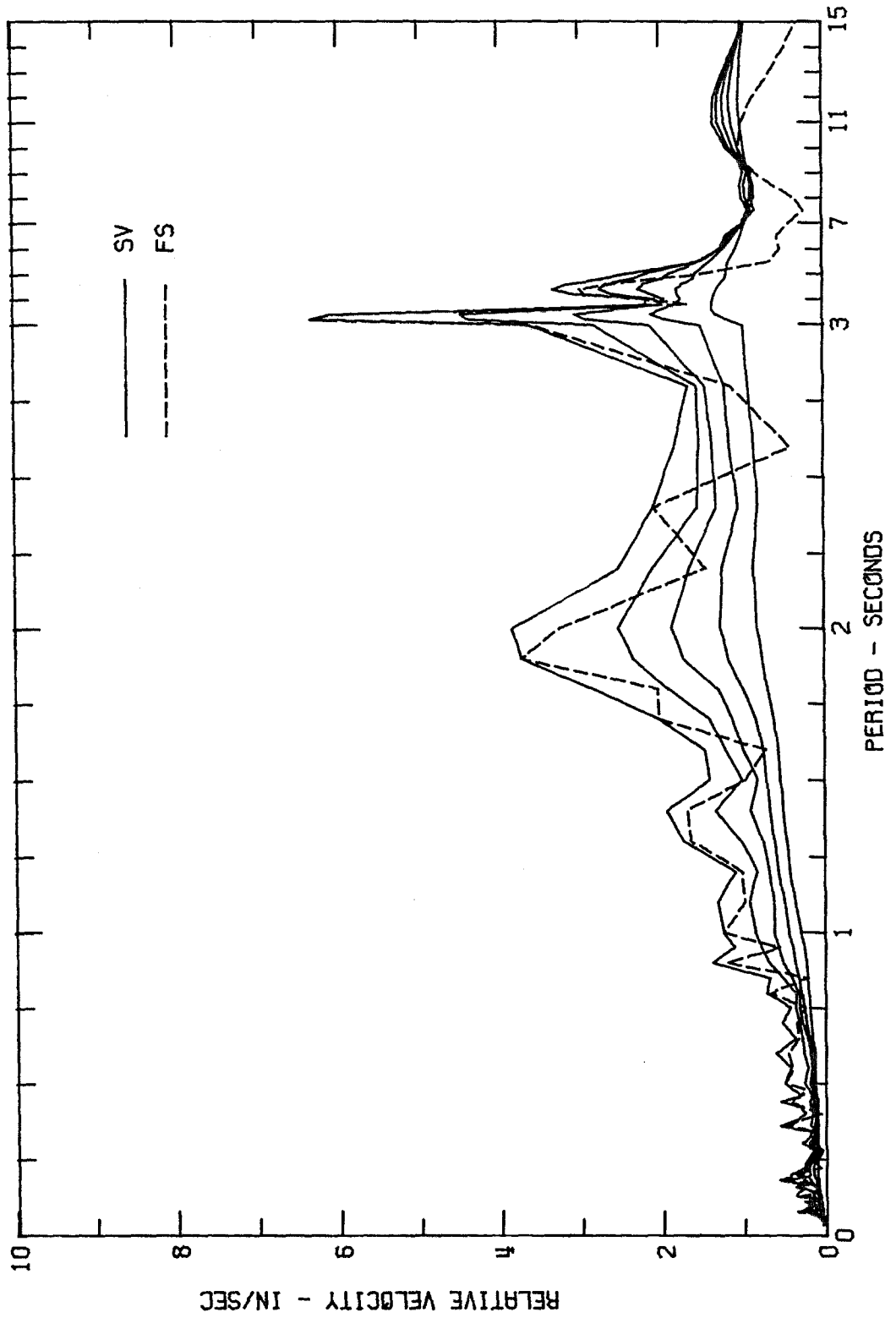
IIIT278 40.001.2 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT					DAMPING = 2 PER CENT					DAMPING = 5 PER CENT					DAMPING = 10 PER CENT					DAMPING = 20 PER CENT				
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8.50	938-3	126-2	184-2	179-5	938-3	122-2	181-2	174-5	907-3	117-2	176-2	170-5	865-3	110-2	168-2	174-5	813-3	583-3	153-2	176-5	726-3	153-2	176-5	726-3	1

RELATIVE VELOCITY RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +84.0 SEC.
1111T278 40.001.2 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

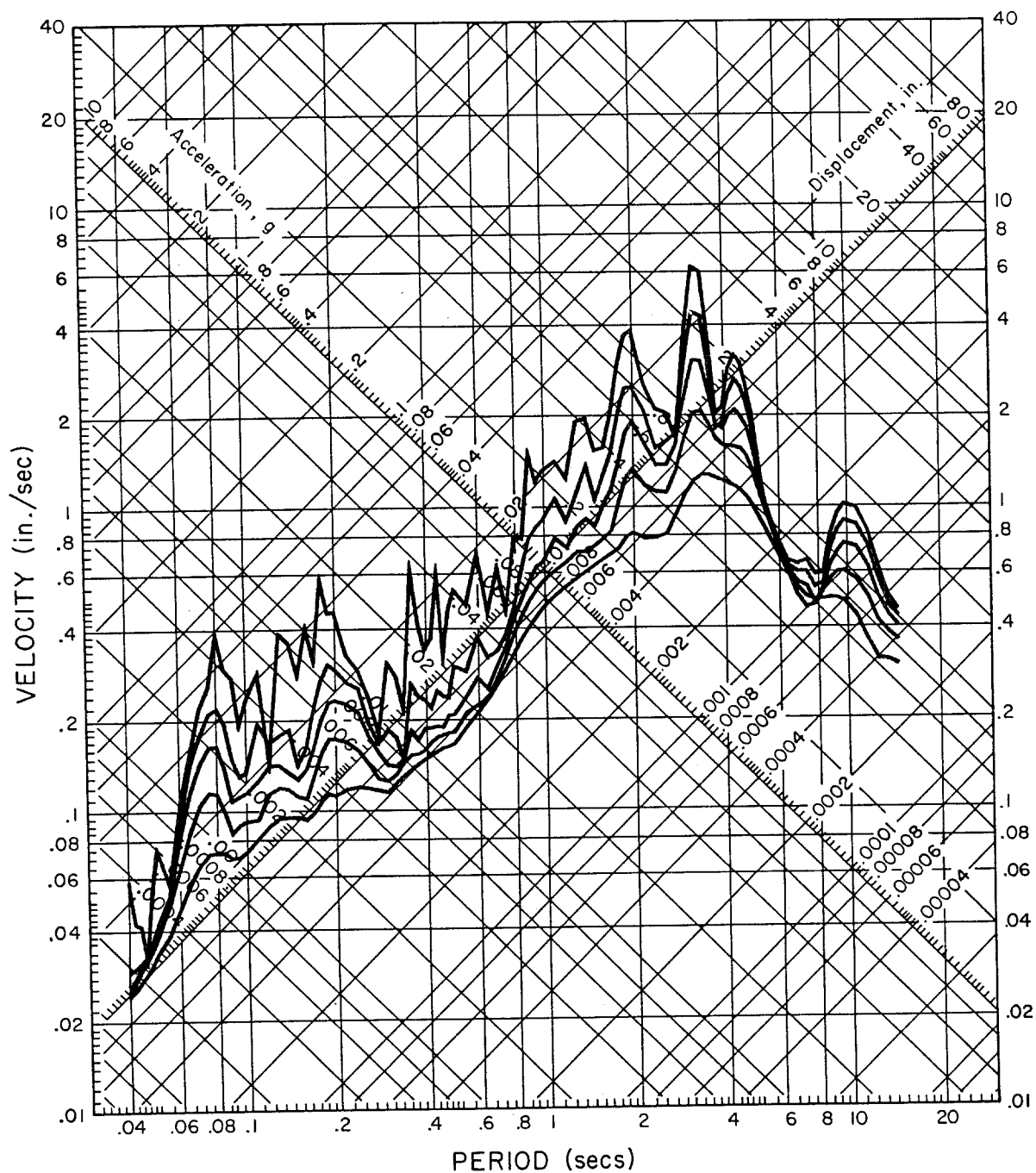


RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +84.0 SEC.

IIIT278 40.001.2 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



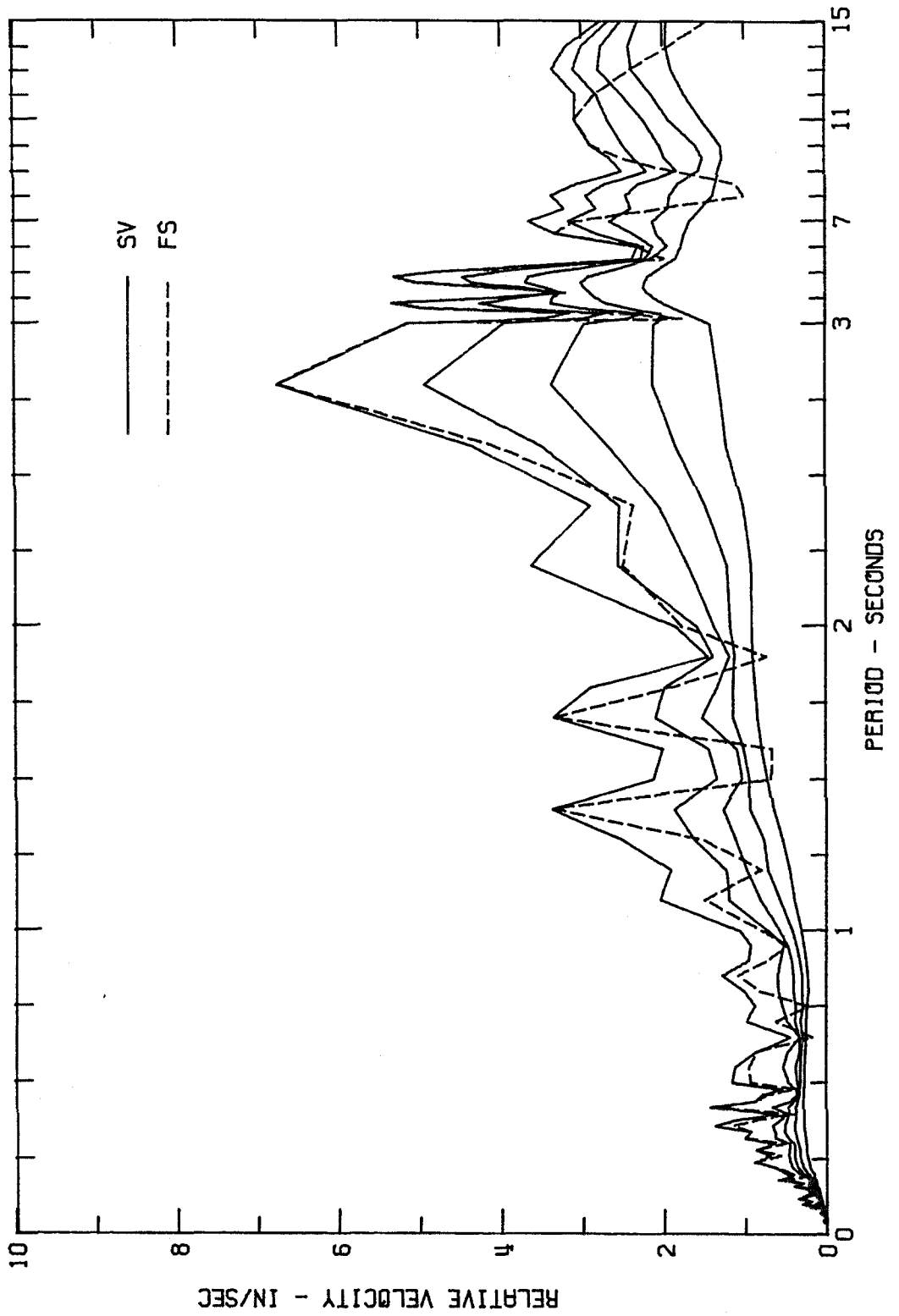
IIIT278 40.001.2 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT					DAMPING = 2 PER CENT					DAMPING = 5 PER CENT					DAMPING = 10 PER CENT					DAMPING = 20 PER CENT				
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0.80	689-3	102-3	731-3	163-4	805-3	689-3	102-3	731-3	163-4	805-3	689-3	102-3	731-3	163-4	805-3	689-3	102-3	731-3	163-4	805-3	689-3	102-3	731-3	163-4	805-3
0.85	216-3	107-3	683-3	152-4	795-3	216-3	107-3	683-3	152-4	795-3	216-3	107-3	683-3	152-4	795-3	216-3	107-3	683-3	152-4	795-3	216-3	107-3	683-3	152-4	795-3
0.90	124-2	218-3	140-2	275-4	152-2	124-2	218-3	140-2	275-4	152-2	124-2	218-3	140-2	275-4	152-2	124-2	218-3	140-2	275-4	152-2	124-2	218-3	140-2	275-4	152-2
0.95	569-3	185-3	112-2	210-4	122-2	569-3	185-3	112-2	210-4	122-2	569-3	185-3	112-2	210-4	122-2	569-3	185-3	112-2	210-4	122-2	569-3	185-3	112-2	210-4	122-2
1.00	125-2	211-3	123-2	216-4	133-2	125-2	211-3	123-2	216-4	133-2	125-2	211-3	123-2	216-4	133-2	125-2	211-3	123-2	216-4	133-2					

RELATIVE VELOCITY RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +101.5 SEC.
111T279 40.001.3 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

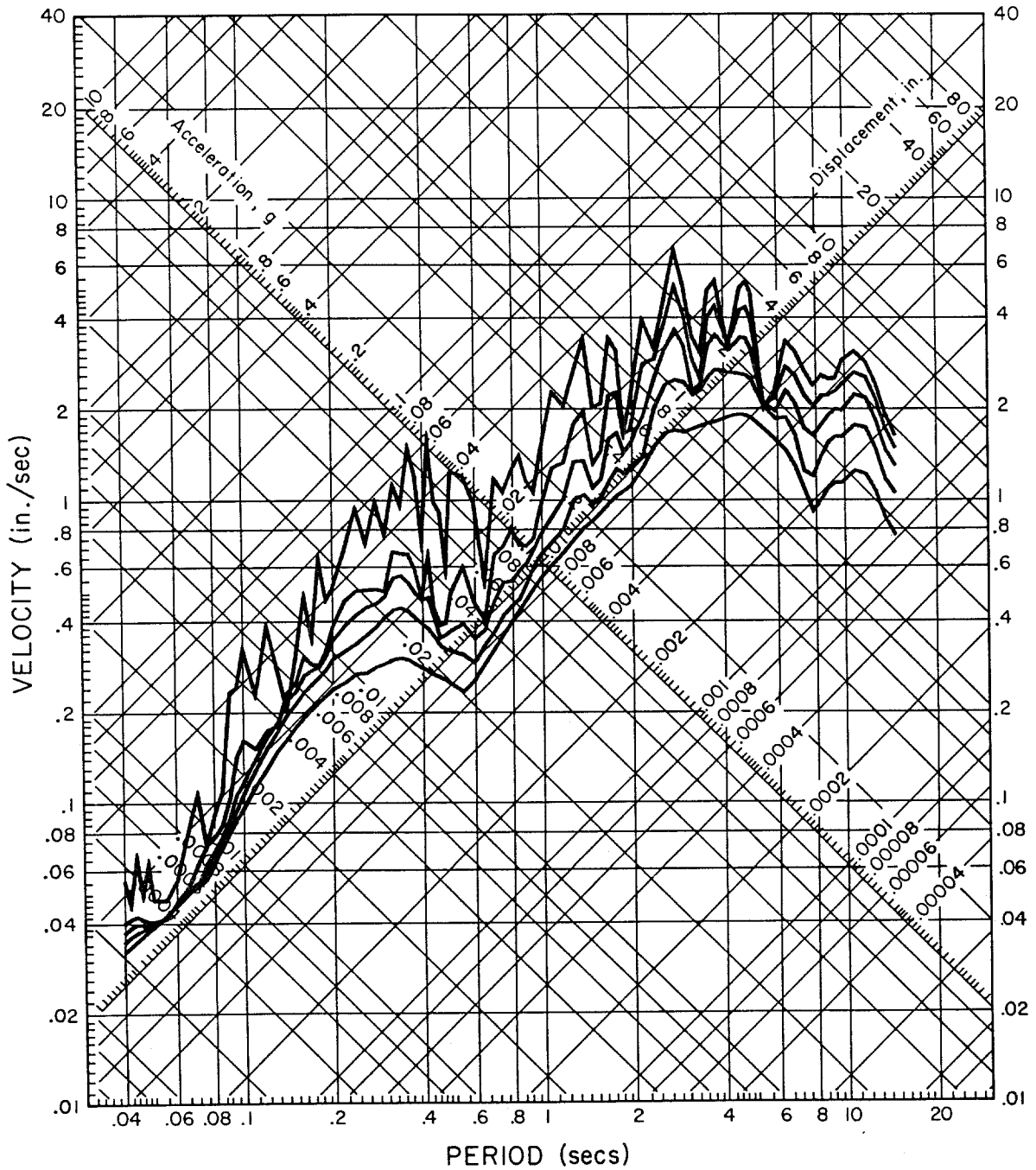


RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +101.5 SEC.

IIIT279 40.001.3 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +101.5 SEC.

IIIT279 40.001.3 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT									
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV				
0.040	174-4	347-6	302-4	222-4	546-4	252-6	137-4	161-4	396-4	234-6	119-4	150-4	367-4	217-6	118-4	139-4	341-4	201-6	984-5	130-4	317-4	222-6	106-4	129-4	333-4	222-6	106-4	129-4	333-4	222-6	106-4	129-4	333-4	222-6	106-4	129-4	333-4	222-6	106-4	129-4	333-4	222-6	106-4	129-4	333-4	222-6	106-4	129-4	333-4
0.042	235-4	305-6	294-4	176-4	456-4	274-6	170-4	159-4	410-4	257-6	153-4	149-4	385-4	239-6	133-4	139-4	358-4	222-6	106-4	129-4	333-4	222-6	106-4	129-4	333-4	222-6	106-4	129-4	333-4	222-6	106-4	129-4	333-4	222-6	106-4	129-4	333-4	222-6	106-4	129-4	333-4	222-6	106-4	129-4	333-4	222-6	106-4	129-4	333-4
0.044	453-4	457-6	493-4																																														

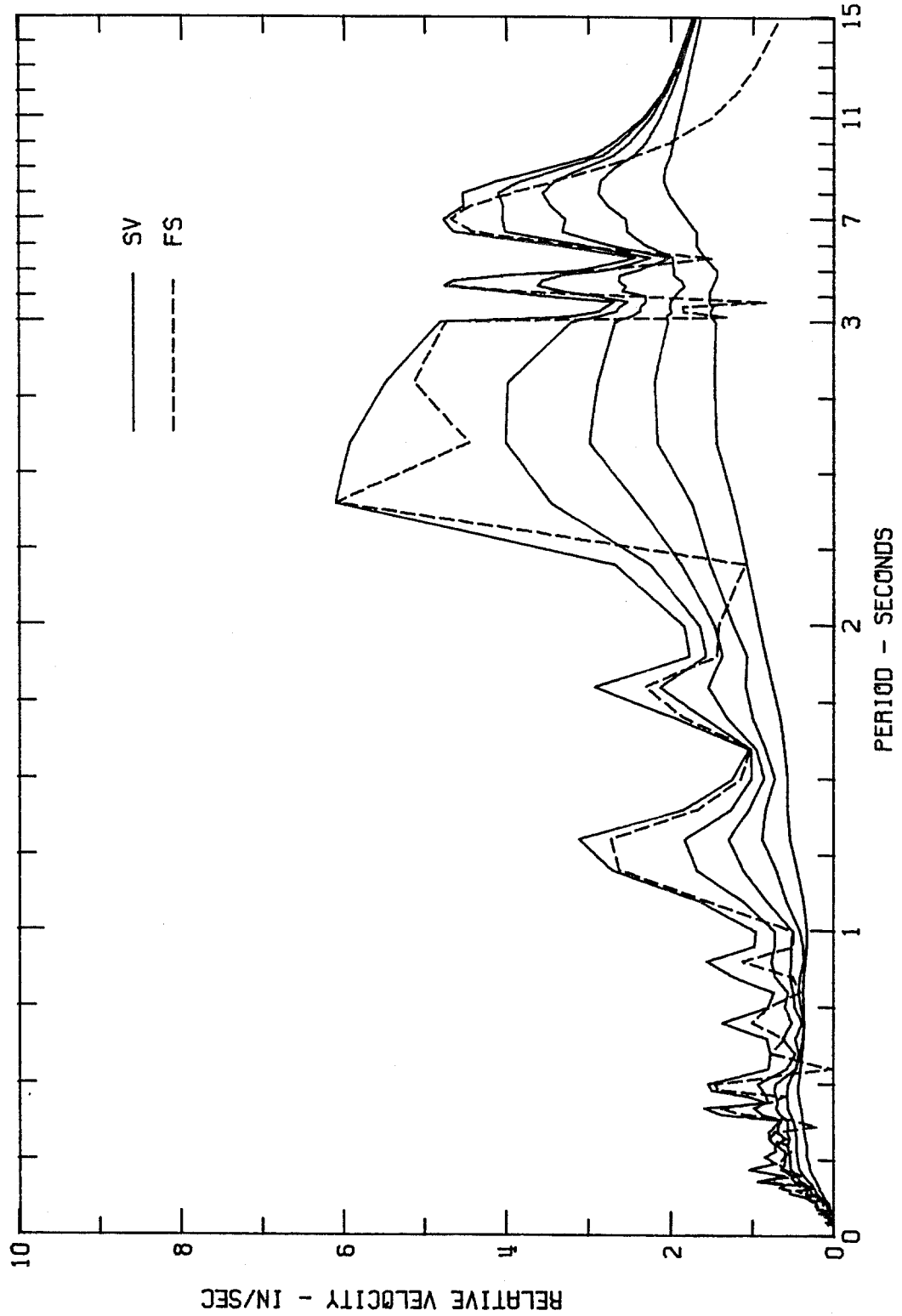
IIIT279 40.001.3 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	DAMPING = 0 PER CENT	DAMPING = 2 PER CENT	SA	SV	SD	PSV	DAMPING = 5 PER CENT	SA	SV	SD	PSV	DAMPING = 10 PER CENT	SA	SV	SD	PSV	DAMPING = 20 PER CENT	
0.75	215-3	126-3	885-3	229-4	105-2	845-4	552-3	153-4	708-3	640-4	382-3	116-4	536-3	293-3	499-4	293-3	914-5	418-3	243-3	431-4	243-3	797-5	361-3
0.80	838-3	160-3	109-2	255-4	125-2	102-3	604-3	163-4	802-3	690-4	412-3	110-4	542-3	302-3	572-4	302-3	920-5	449-3	225-4	507-4	225-3	827-5	393-3
0.85	1130-3	190-3	129-2	269-4	140-2	961-4	612-3	136-4	710-3	795-4	416-3	113-4	587-3	305-3	642-4	305-3	915-5	474-3	238-3	590-4	238-3	856-5	436-3
0.90	738-3	164-3	963-3	207-4	114-2	101-3	576-3	128-4	709-3	895-4	434-3	113-4	625-3	336-3	770-4	336-3	980-5	537-3	254-3	682-4	254-3	885-5	470-3
0.95	482-3	159-3	934-3	180-4	105-2	113-3	537-3	129-4	753-3	104-3	482-3	118-4	692-3	377-3	918-4	377-3	104-4	607-3	283-3	780-4			

RELATIVE VELOCITY RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +101.5 SEC.
111T279 40.001.3 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

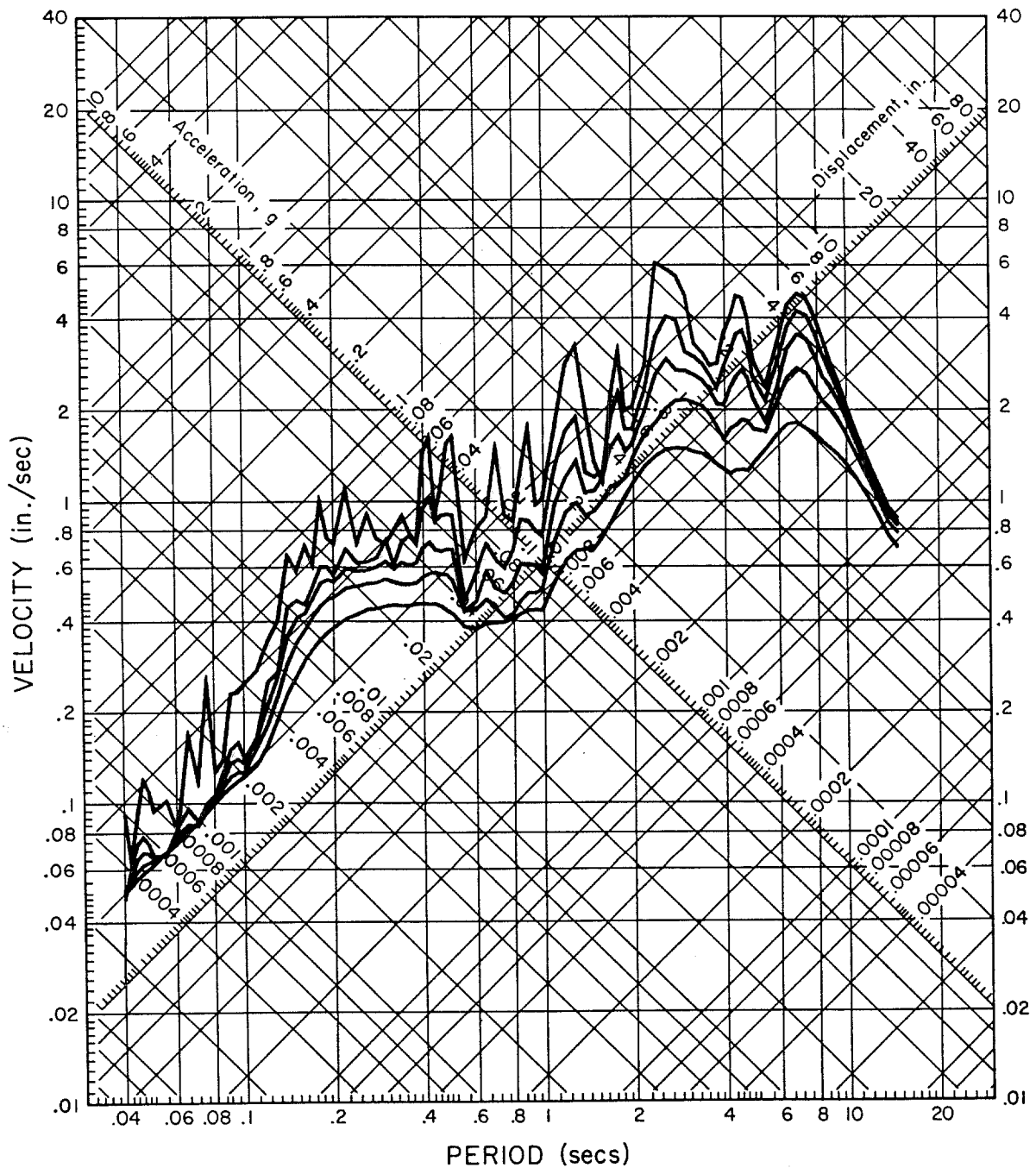


RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +101.5 SEC.

IIIT279 40.001.3 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +101.5 SEC.

IIIT279 40.001.3 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT																	
0.040	322-4	579-6	632-4	370-4	909-4	301-6	186-4	192-4	472-4	309-6	148-4	197-4	486-4	321-6	138-4	206-4	505-4
0.042	828-5	422-6	271-4	245-4	632-4	393-6	212-4	228-4	591-4	373-6	169-4	217-4	559-4	364-6	152-4	212-4	545-4
0.044	801-4	633-6	783-4	334-4	904-4	508-6	249-4	268-4	726-4	448-6	192-4	237-4	640-4	409-6	164-4	217-4	585-4
0.046	109-3	868-6	108-3	419-4	118-3	562-6	286-4	272-4	768-4	497-6	213-4	240-4	679-4	451-6	181-4	218-4	617-4
0.048	751-4	830-6	758-4	368-4	108-3	555-6	256-4	246-4	727-4	514-6	219-4	228-4	673-4	480-6	189-4	214-4	628-4
0.050	392-4	745-6	677-4	305-4	937-4	524-6	231-4	214-4	658-4	514-6	209-4	211-4	646-4	509-6	194-4	208-4	640-4
0.055	663-4	888-6	749-4	300-4	101-3	577-6	248-4	195-4	659-4	585-6	203-4	198-4	668-4	596-6	210-4	201-4	681-4
0.060	644-4	769-6	687-4	218-4	806-4	791-6	303-4	224-4	828-4	747-6	270-4	212-4	782-4	723-6	250-4	205-4	757-4
0.065	656-4	172-5	119-3	417-4	166-3	984-6	475-4	238-4	951-4	876-6	360-4	212-4	847-4	840-6	303-4	204-4	812-4
0.070	102-3	131-5	102-3	273-4	117-3	954-6	316-4	199-4	856-4	931-6	338-4	193-4	835-4	953-6	329-4	199-4	856-4
0.075	165-3	294-5	195-3	536-4	247-3	118-5	468-4	216-4	995-4	112-5	386-4	203-4	939-4	111-5	364-4	204-4	933-4
0.080	399-4	160-5	794-4	256-4	125-3	135-5	468-4	216-4	106-3	132-5	386-4	212-4	104-3	130-5	410-4	210-4	102-3
0.085	327-4	187-5	932-4	265-4	138-3	170-5	717-4	241-4	125-3	159-5	579-4	226-4	118-3	152-5	497-4	221-4	121-3
0.090	217-3	328-5	211-3	414-4	229-3	213-5	726-4	270-4	149-3	192-5	665-4	244-4	134-3	173-5	577-4	221-4	121-3
0.095	201-3	350-5	213-3	396-4	231-3	238-5	836-4	270-4	157-3	209-5	726-4	238-4	138-3	190-5	643-4	215-4	125-3
0.100	231-3	396-5	227-3	405-4	248-3	221-5	834-4	225-4	139-3	212-5	789-4	217-4	133-3	199-5	694-4	204-4	125-3
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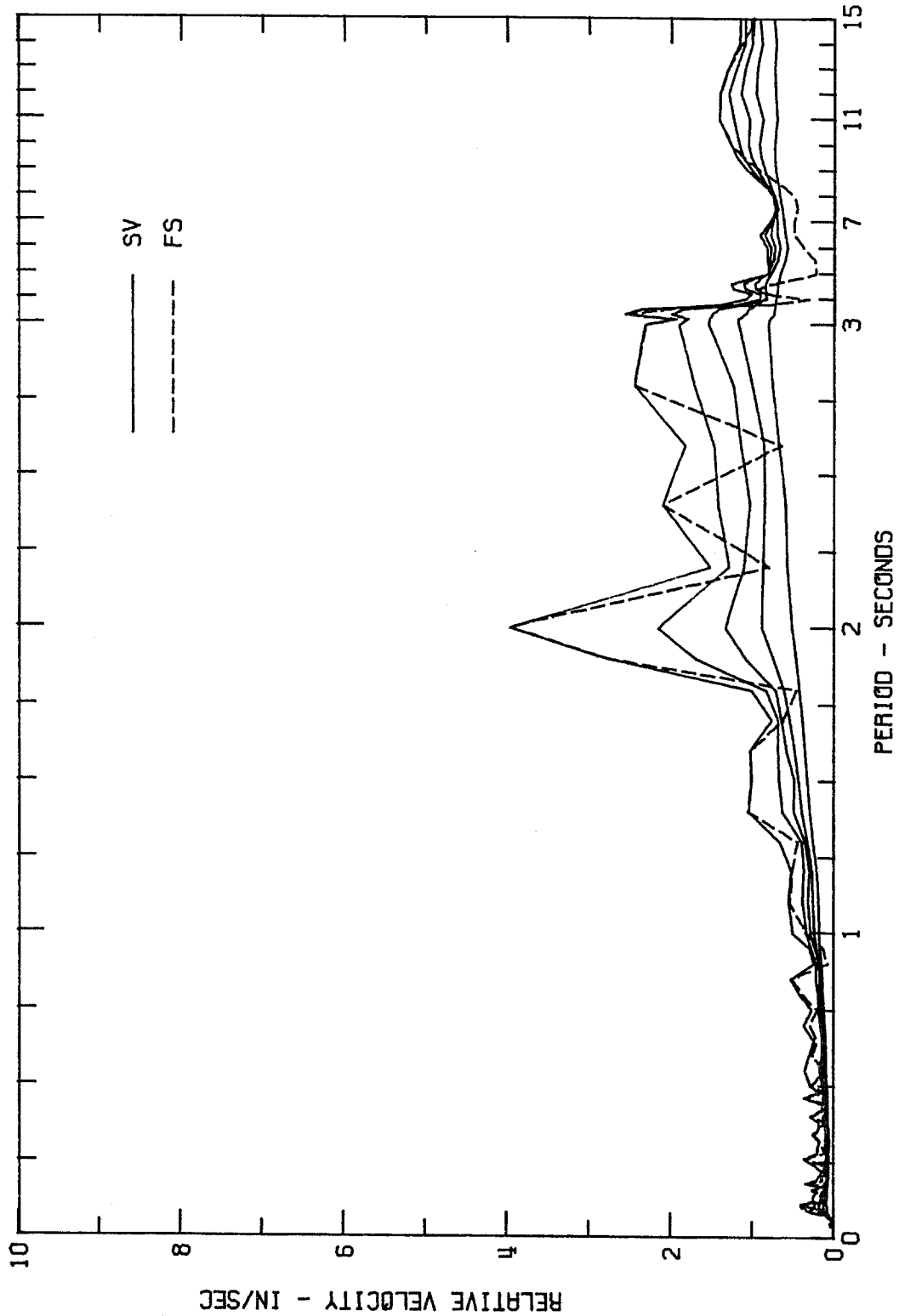
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +101.5 SEC.
11117279 40.001.3 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP
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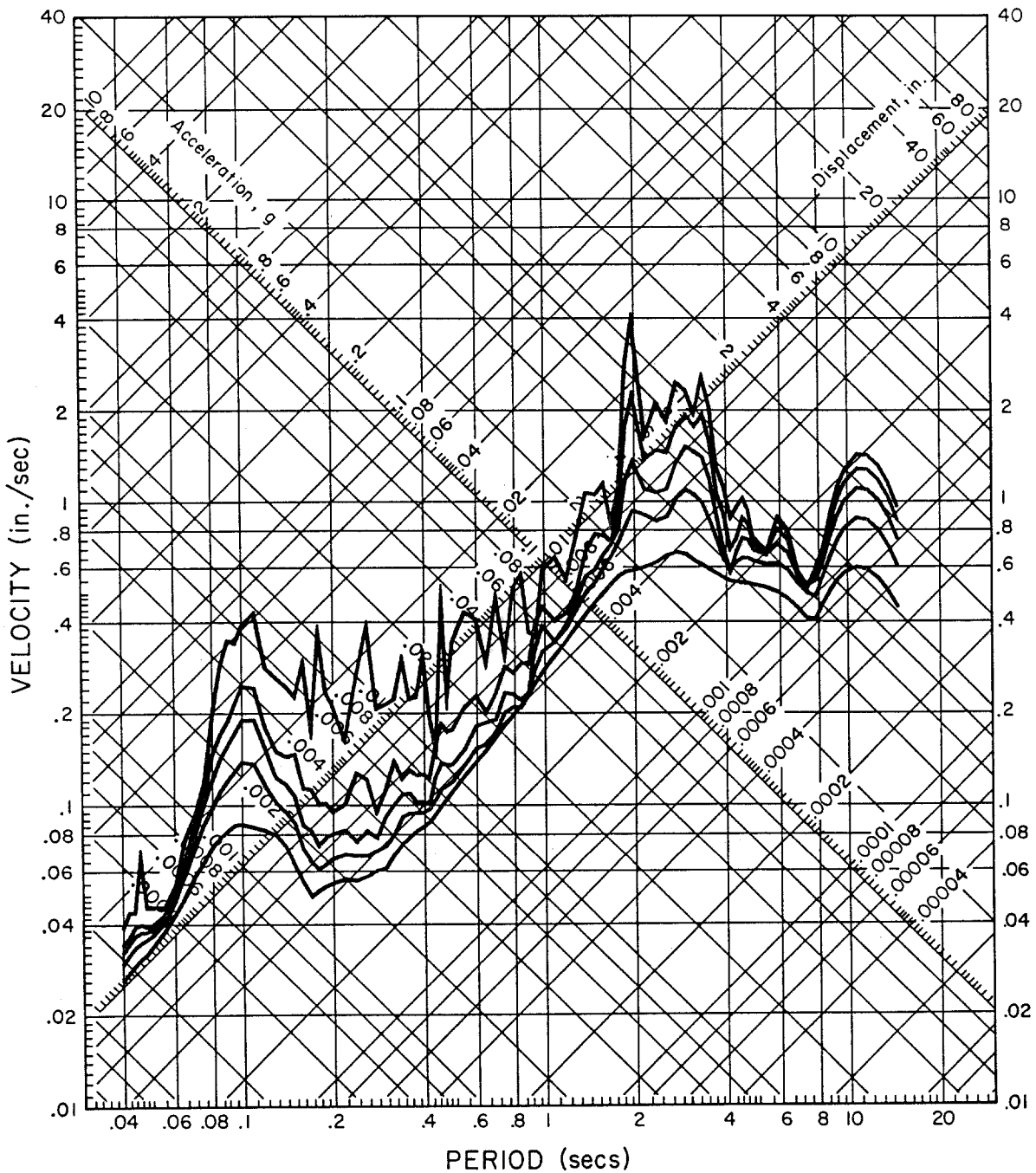


RESPONSE SPECTRUM

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IIIT279 40.001.3 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IIIT279 40.001.3 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

THE UNITS USED ARE SEC FOR PER. IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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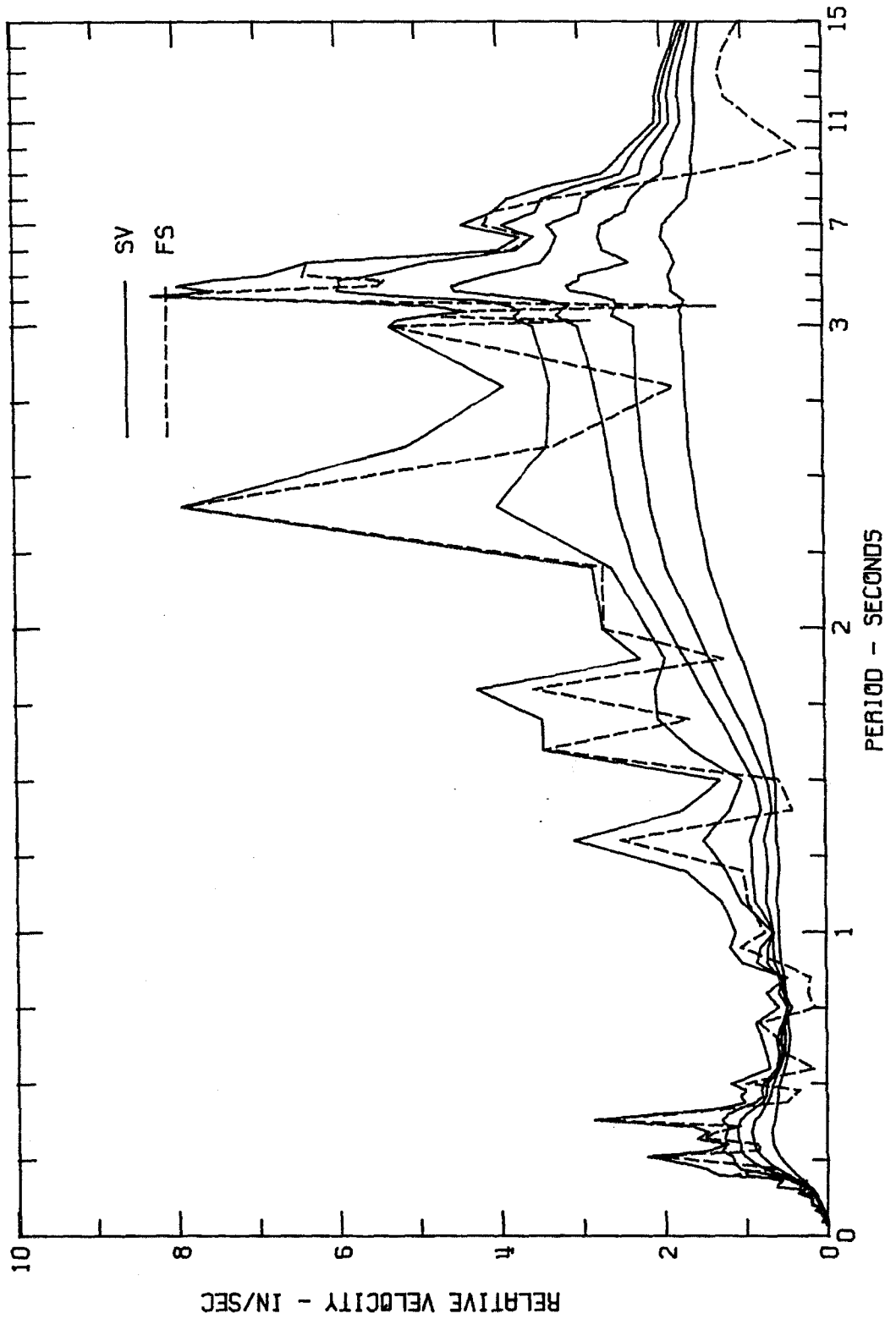
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +125.0 SEC.
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

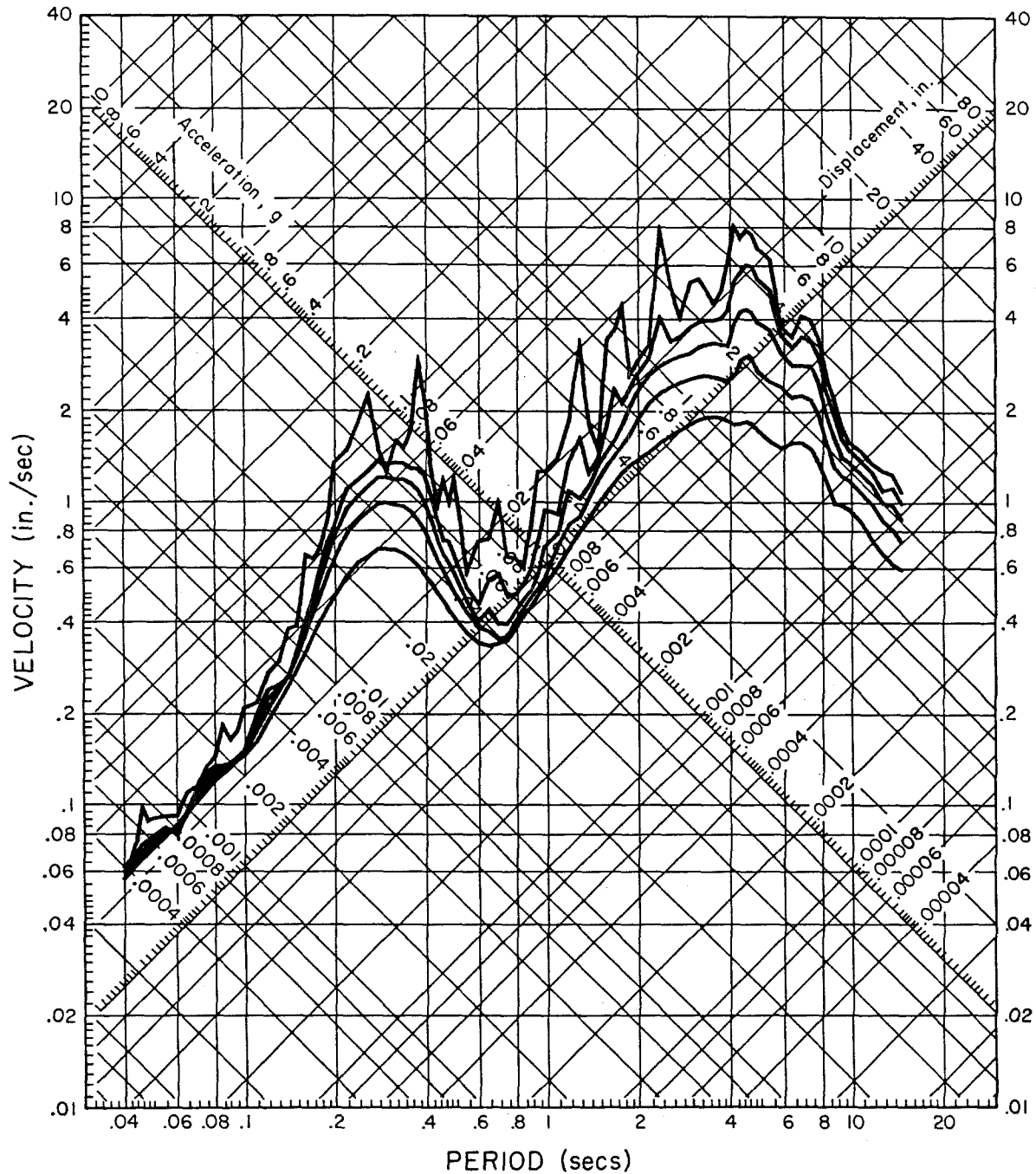


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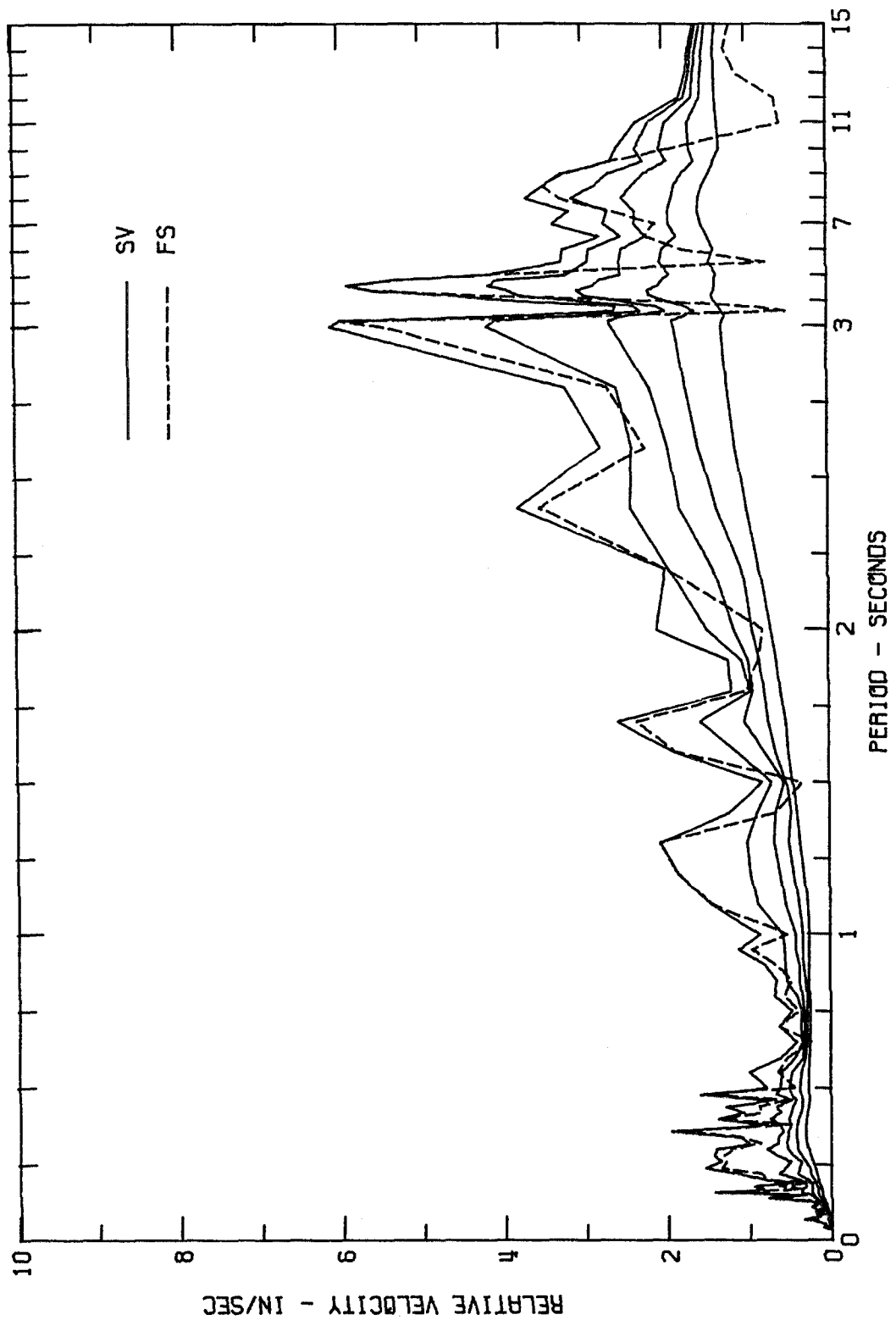
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RELATIVE VELOCITY RESPONSE SPECTRUM

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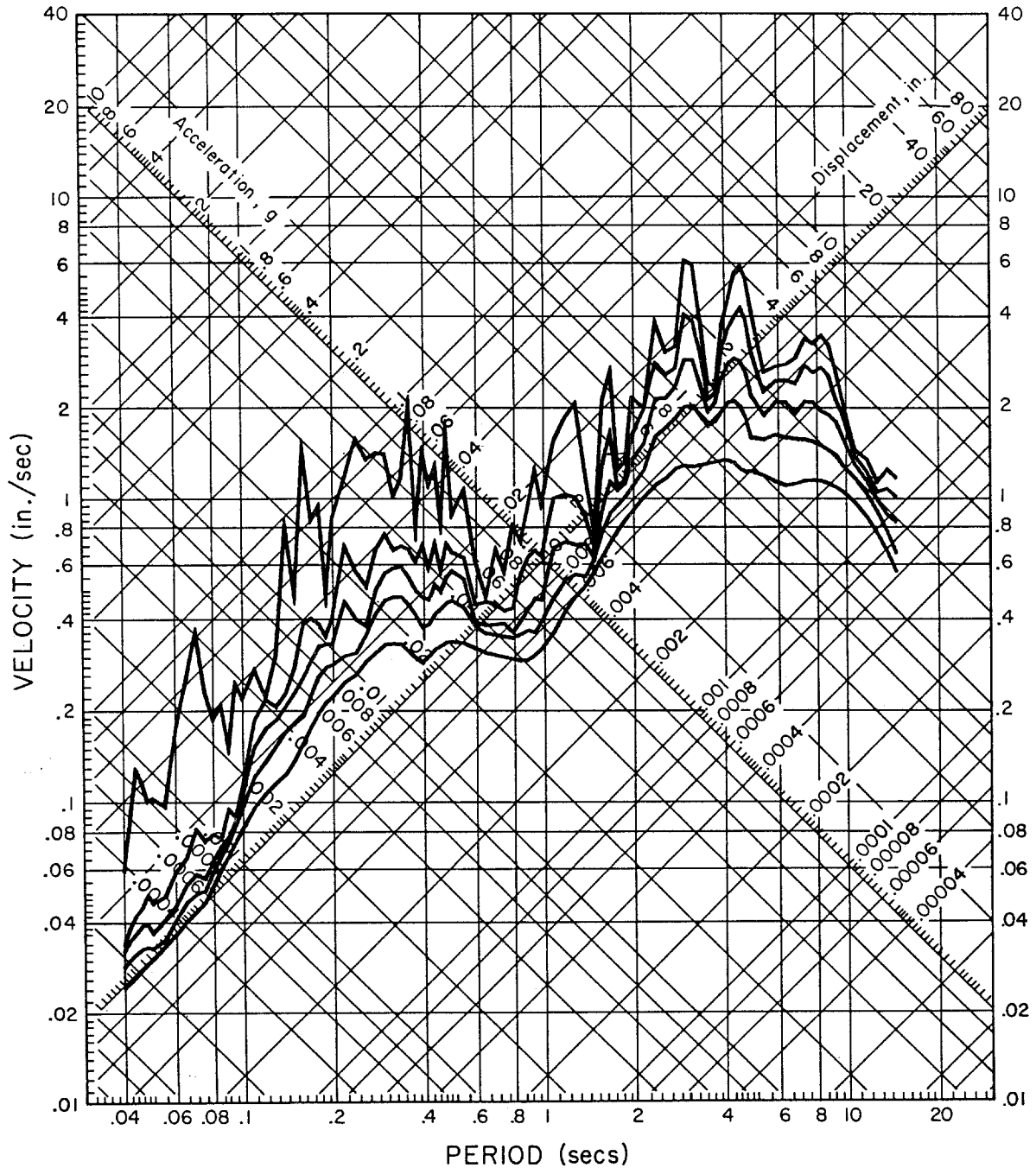


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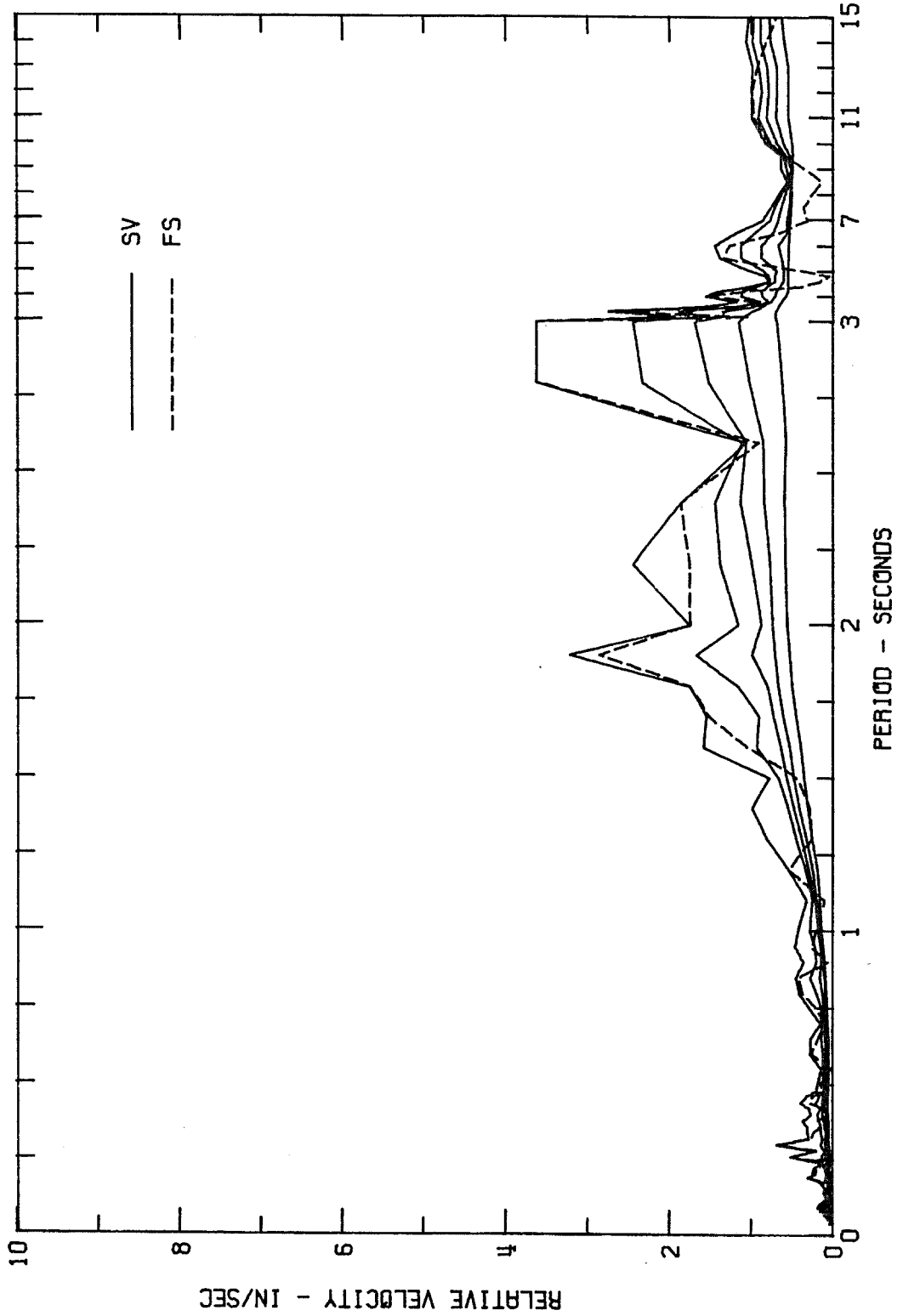
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



RELATIVE VELOCITY RESPONSE SPECTRUM

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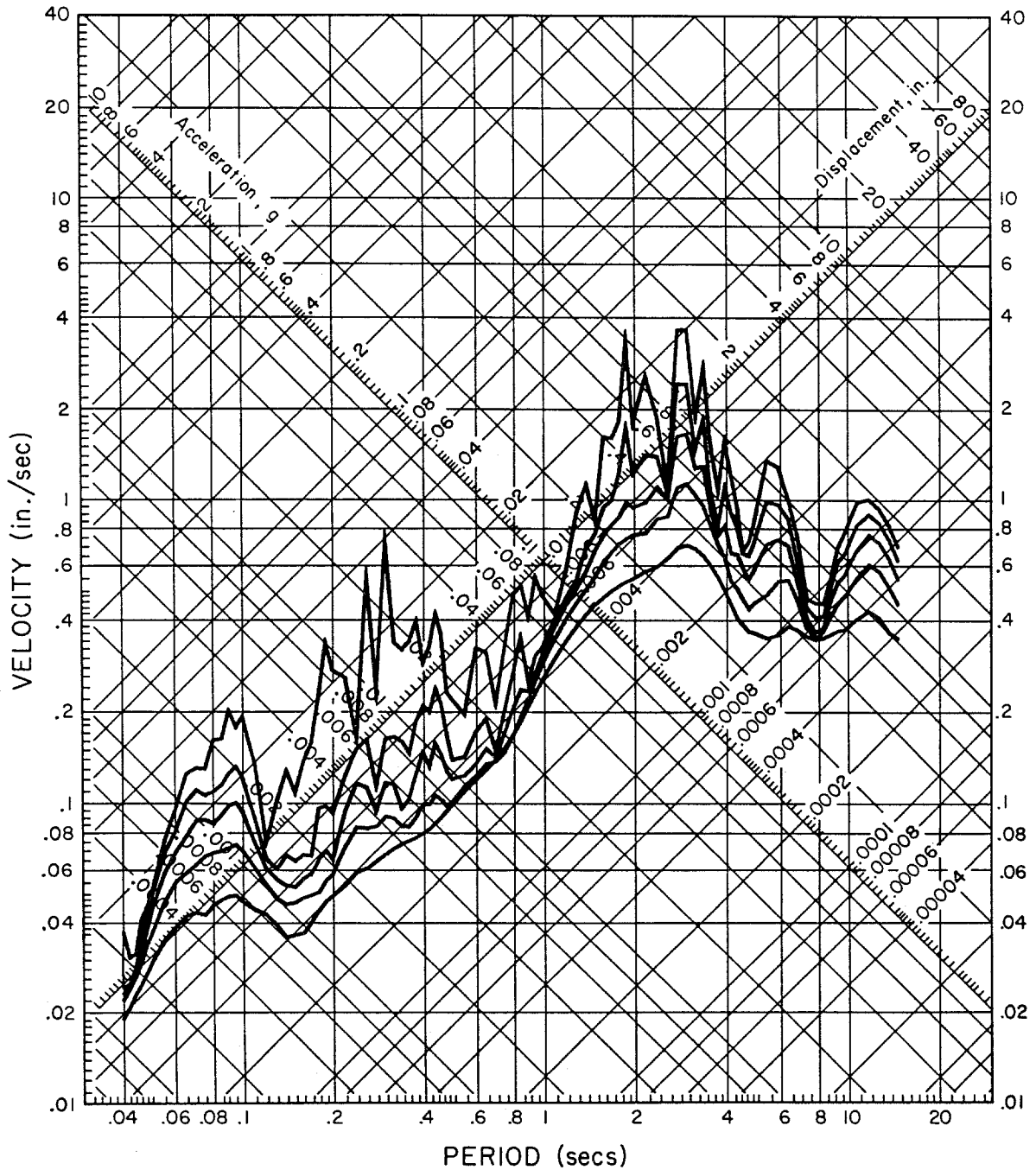


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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



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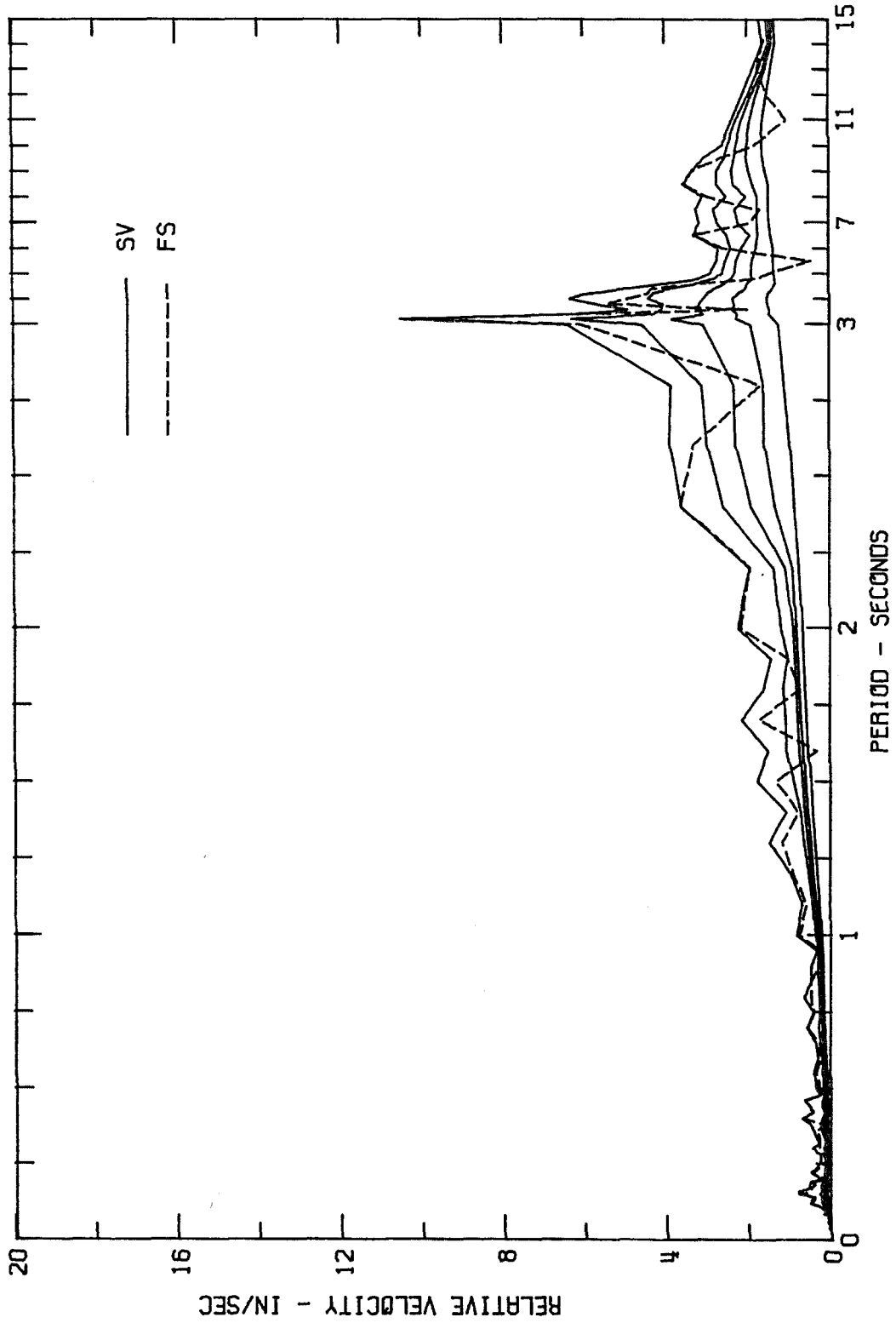
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RELATIVE VELOCITY RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +154.0 SEC.
IIIT281 40.001.5 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

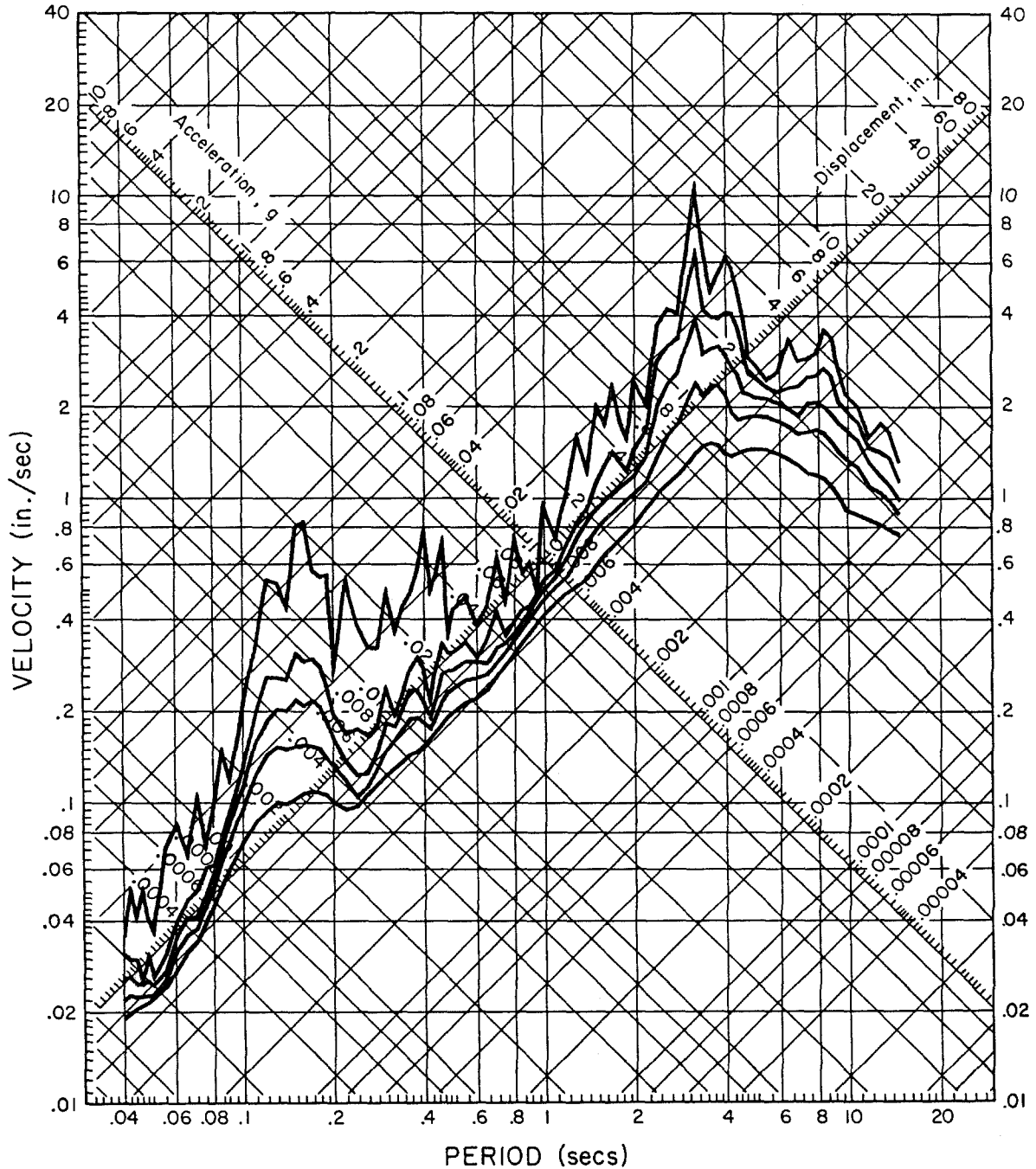


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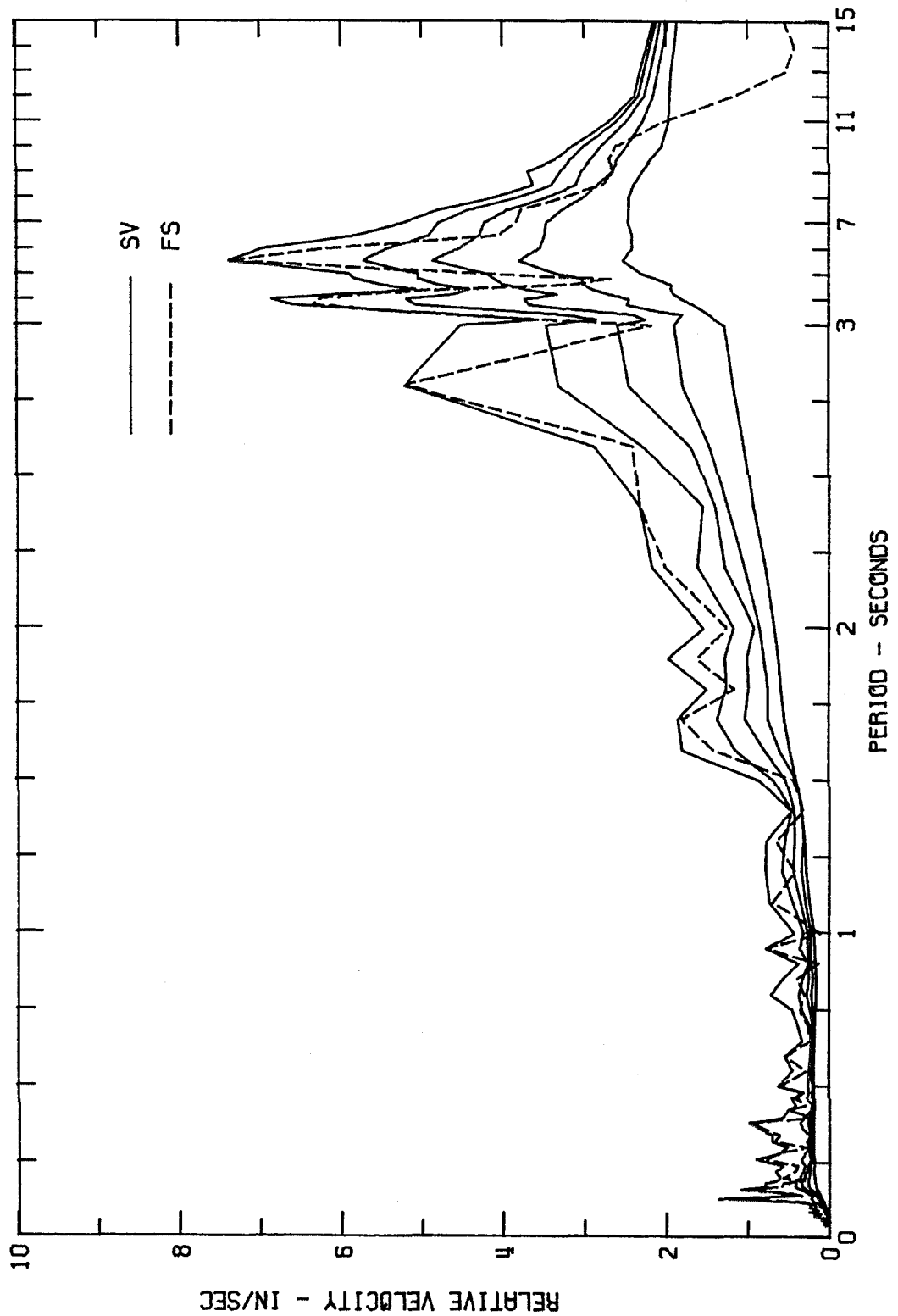
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IIIT281 40.001.5 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

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IIIT281 40.001.5 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST
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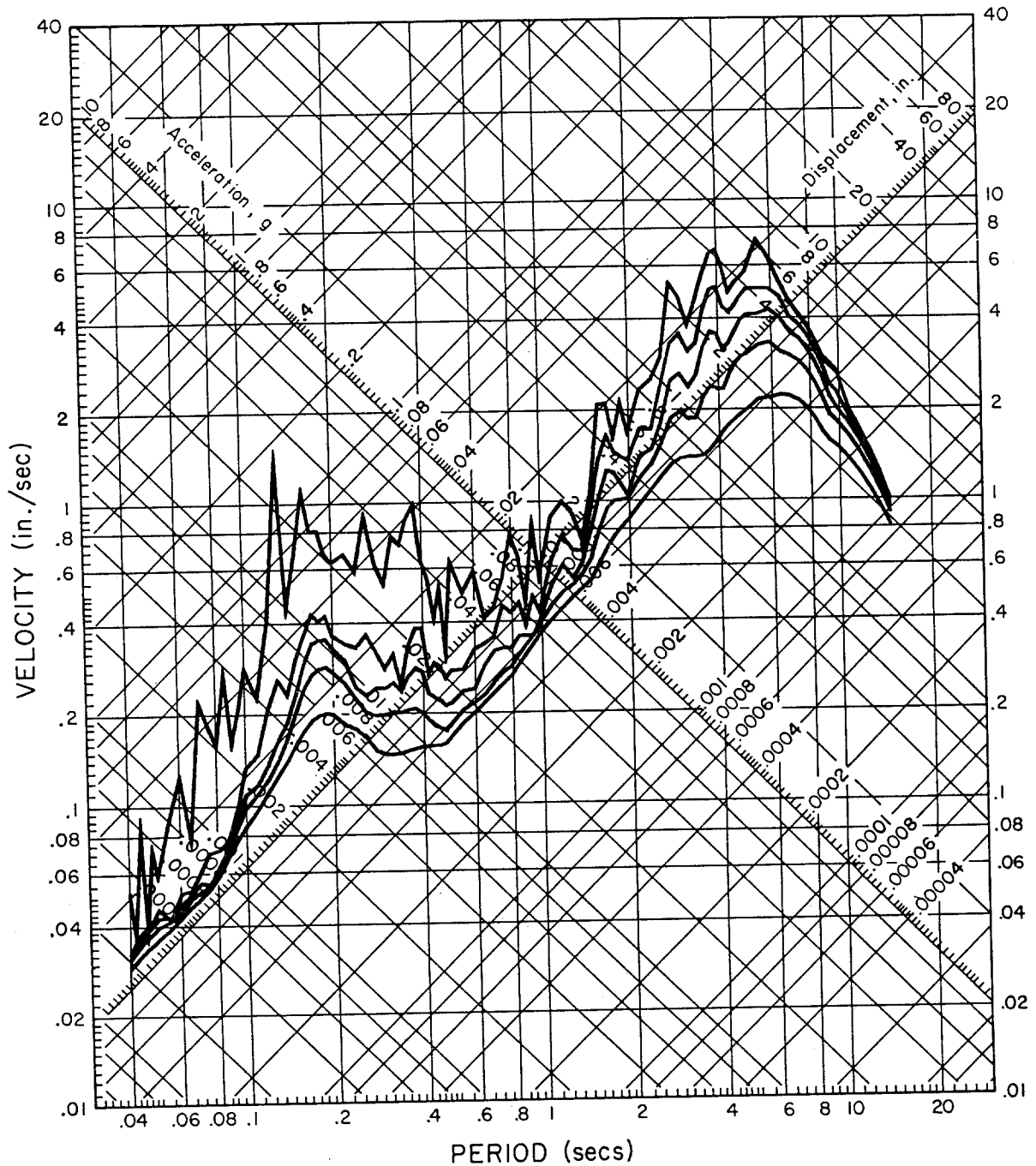


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11IT281 40.001.5 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IIIT28I 40.001.5 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT				
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0.042	209-4	243-6	226-4	141-4	364-4	238-6	172-4	138-4	357-4	228-6	152-4	133-4	341-4	218-6	133-4	127-4	327-4	203-6	111-4	120-4	304-4
0.044	756-4	573-6	726-4	303-4	819-4	266-6	176-4	140-4	380-4	256-6	169-4	135-4	364-4	243-6	137-4	128-4	347-4	224-6	118-4	120-4	320-4
0.046	461-5	282-6	228-4	136-4	386-4	290-6	194-4	140-4	396-4	281-6	163-4	136-4	384-4	266-6	141-4	129-4	364-4	244-6	125-4	119-4	334-4
0.048	500-4	545-6	602-4	242-4	713-4	320-6	246-4	142-4	419-4	306-6	194-4	137-4	401-4	288-6	150-4	129-4	377-4	264-6	131-4	120-4	346-4
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0.055	843-4	793-6	879-4	268-4	906-4	364-6	246-4	123-4	415-4	371-6	215-4	126-4	423-4	362-6	190-4	124-4	414-4	341-6	161-4	117-4	389-4
0.060	101-3	118-5	109-3	335-4	123-3	488-6	322-4	138-4	511-4	447-6	240-4	127-4	468-4	423-6	209-4	121-4	443-4	405-6	182-4	116-4	424-4
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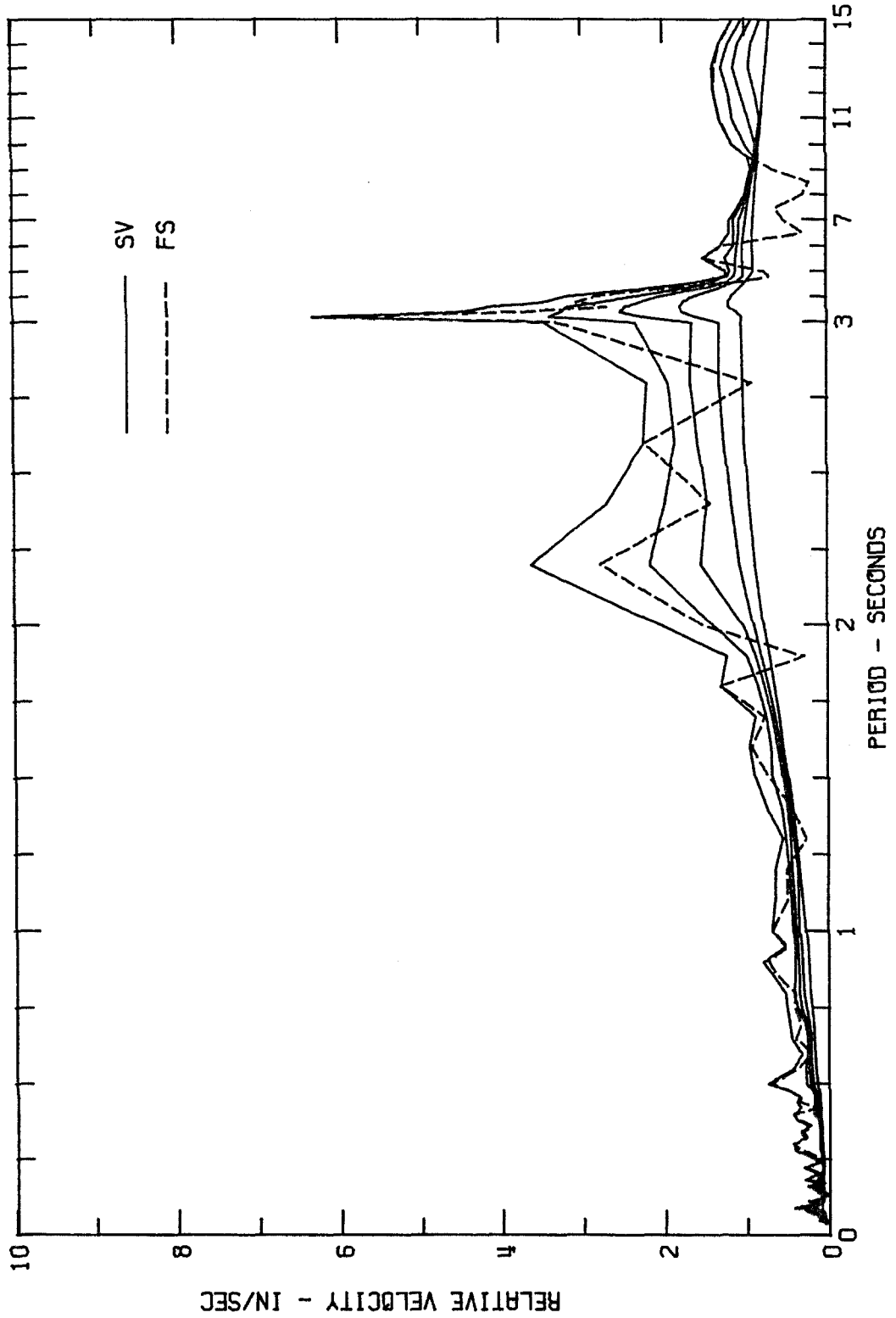
IIIT281 40.001.5 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT				
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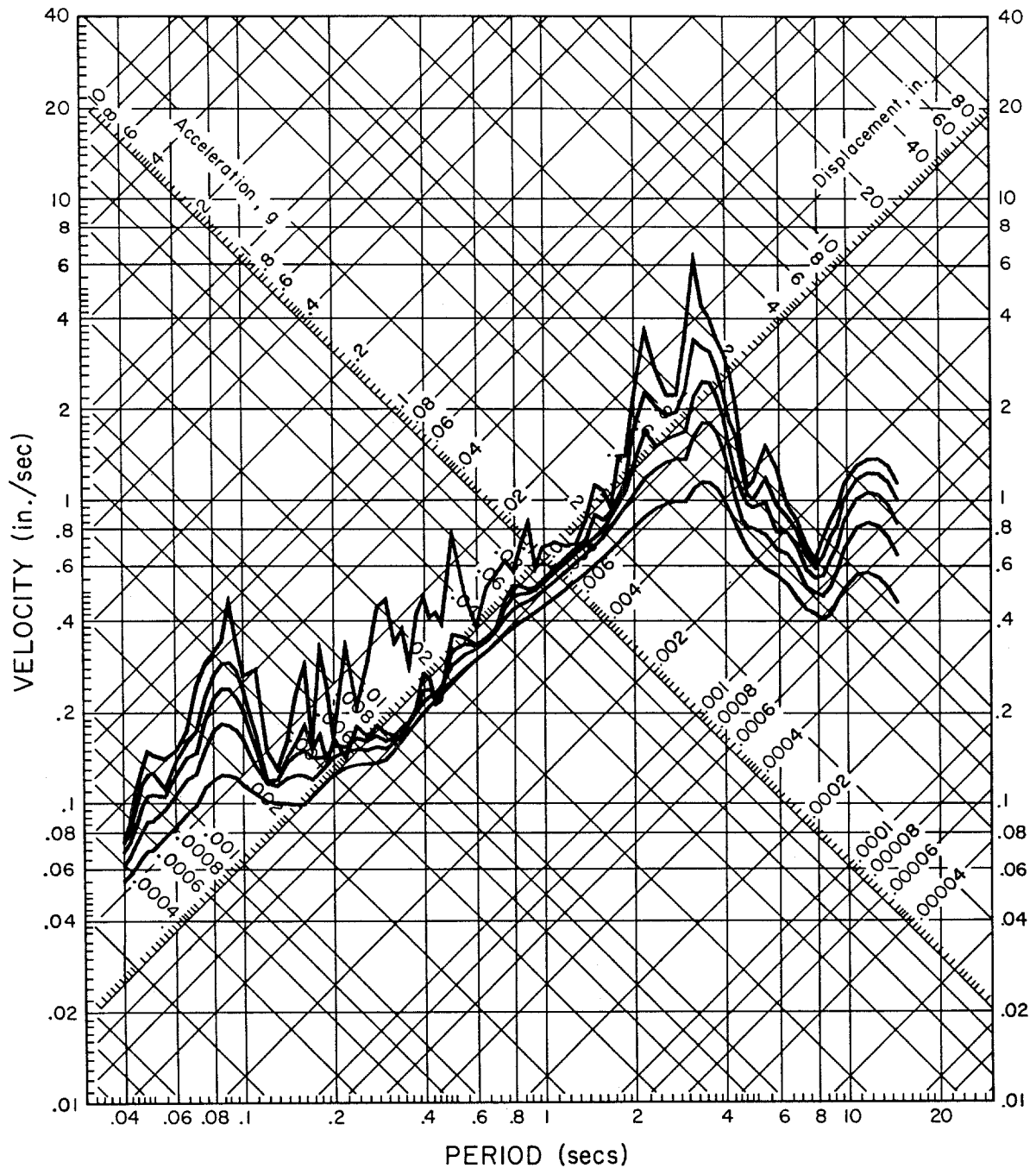


RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +154.0 SEC.

111T281 40.001.5 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



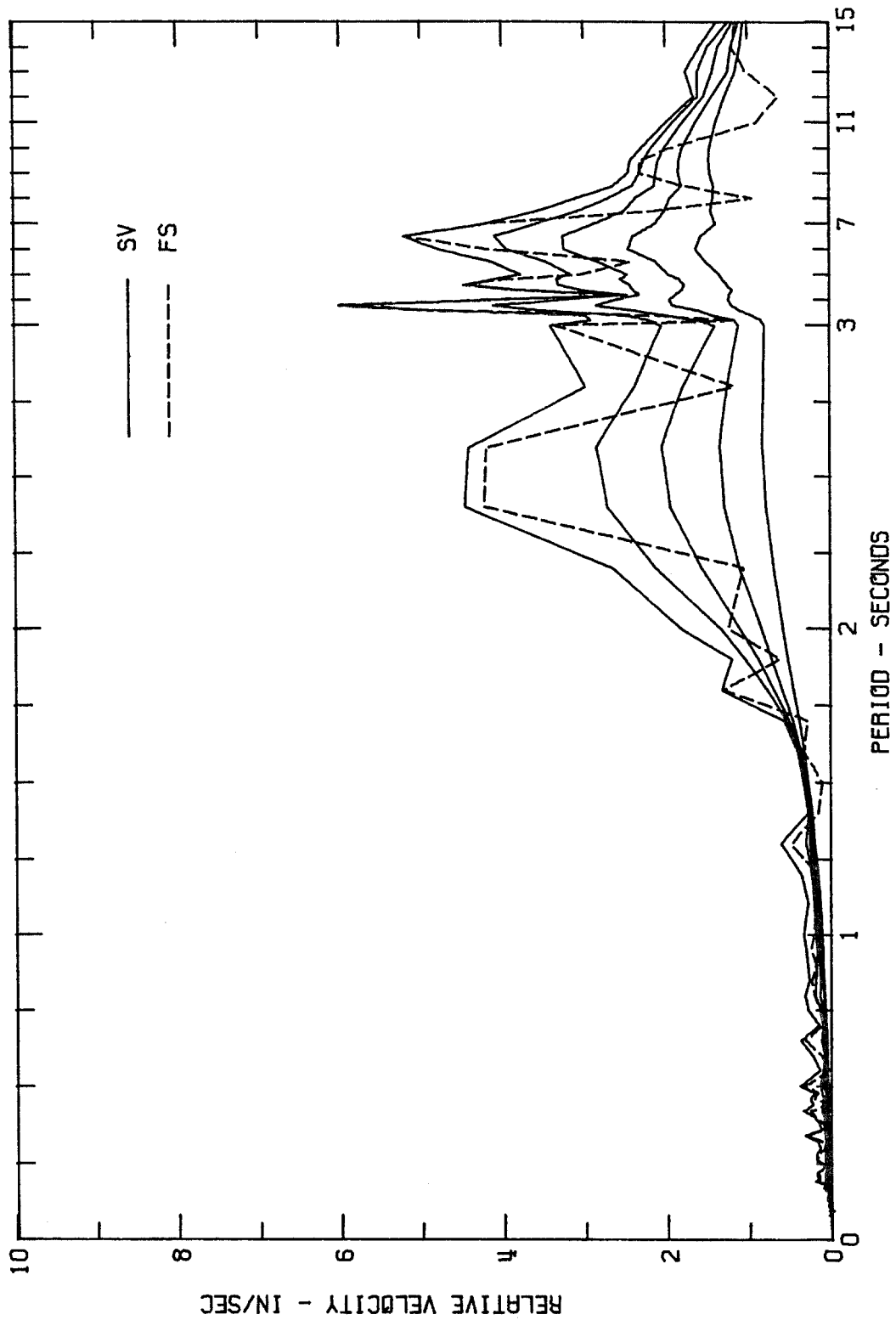
IIIT281 40.001.5 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT					DAMPING = 2 PER CENT					DAMPING = 5 PER CENT					DAMPING = 10 PER CENT					DAMPING = 20 PER CENT				
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
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RELATIVE VELOCITY RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +203.0 SEC.
1117282 40.001.6 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

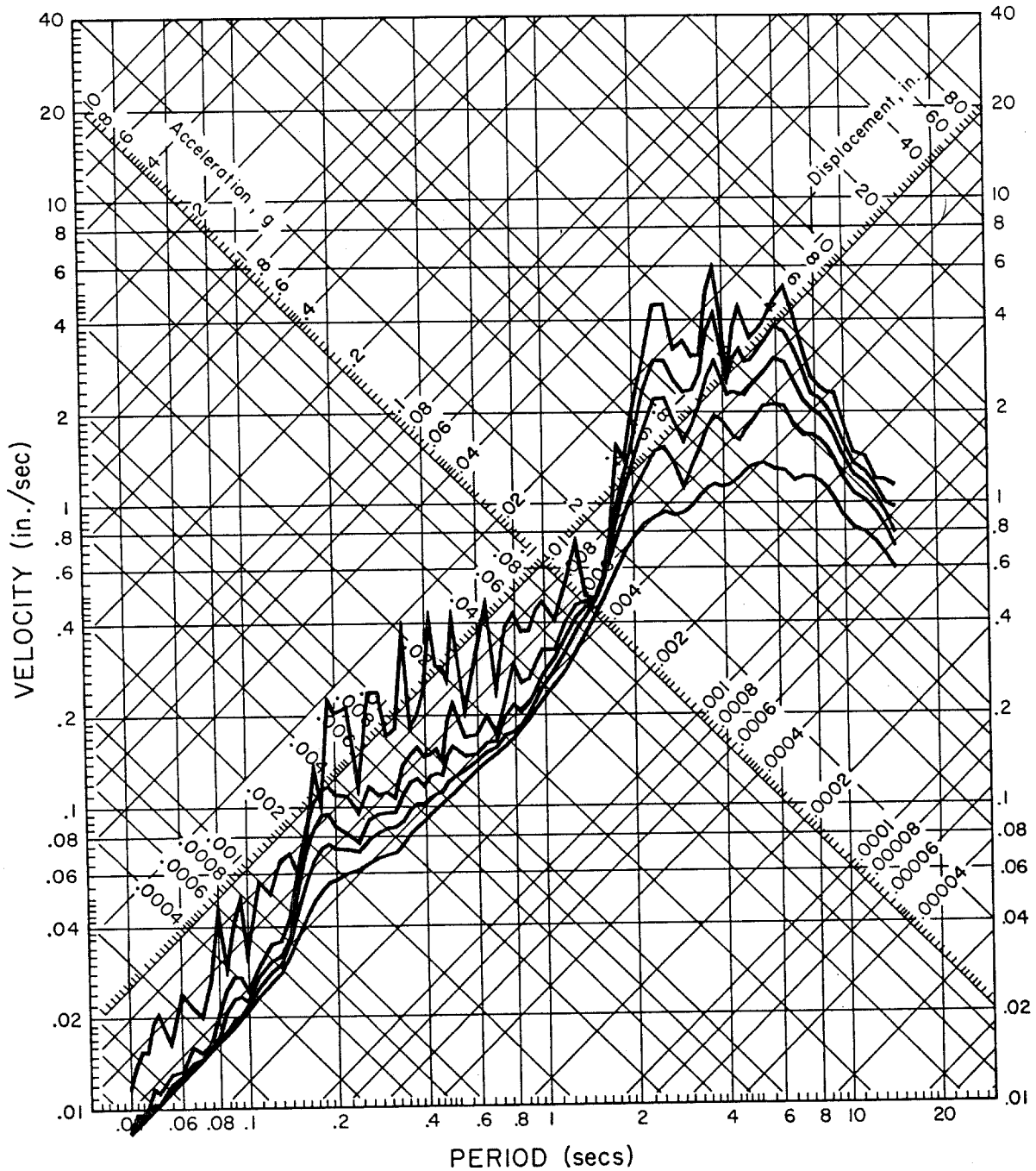


RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +203.0 SEC.

IIIT282 40.001.6 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IIIT282	40.001.6	EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT	COMP NORTH
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THE UNITS USED ARE SEC FOR FS, SV, AND PSV, IN/SEC FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT				
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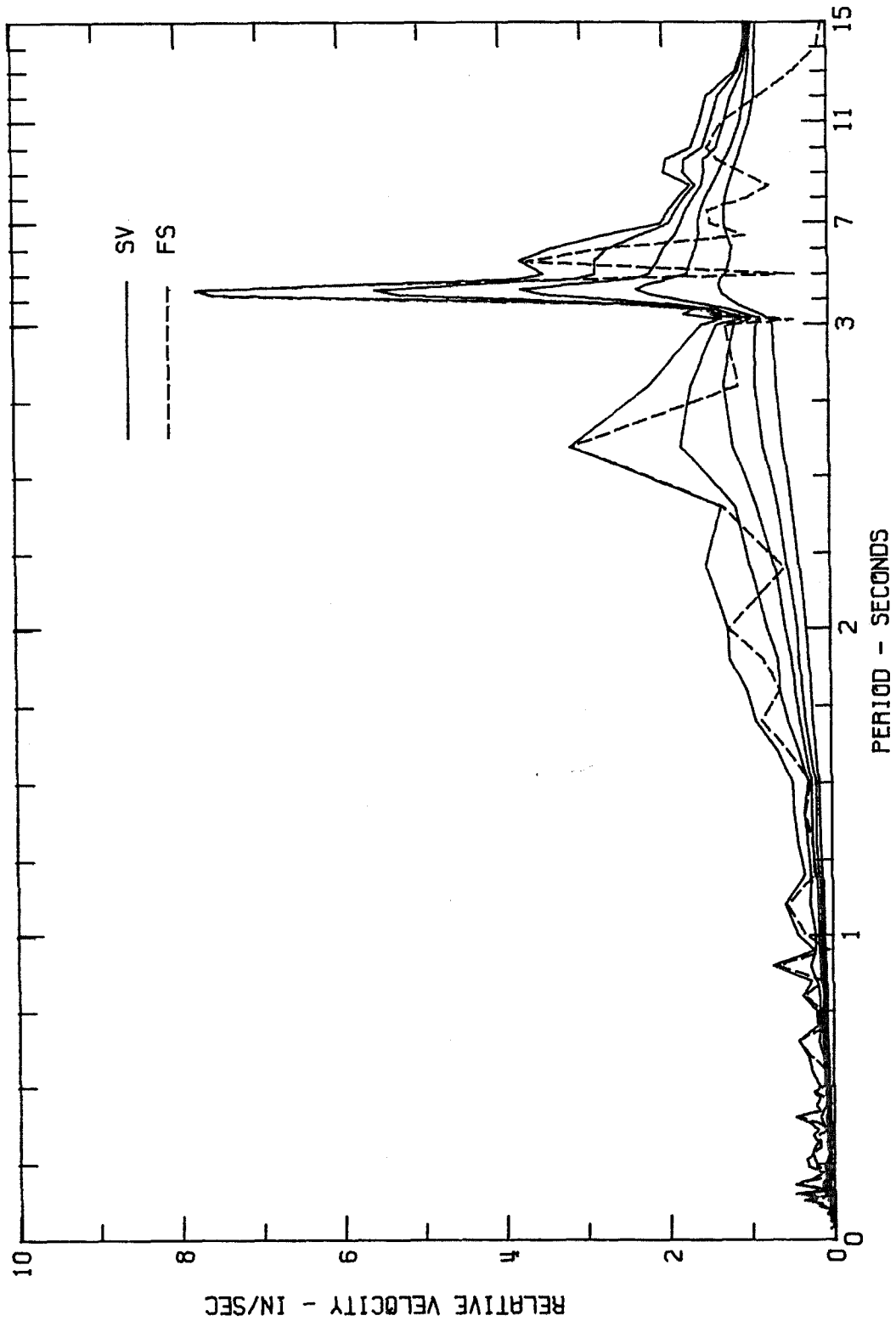
IIII282 40.001.6 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM

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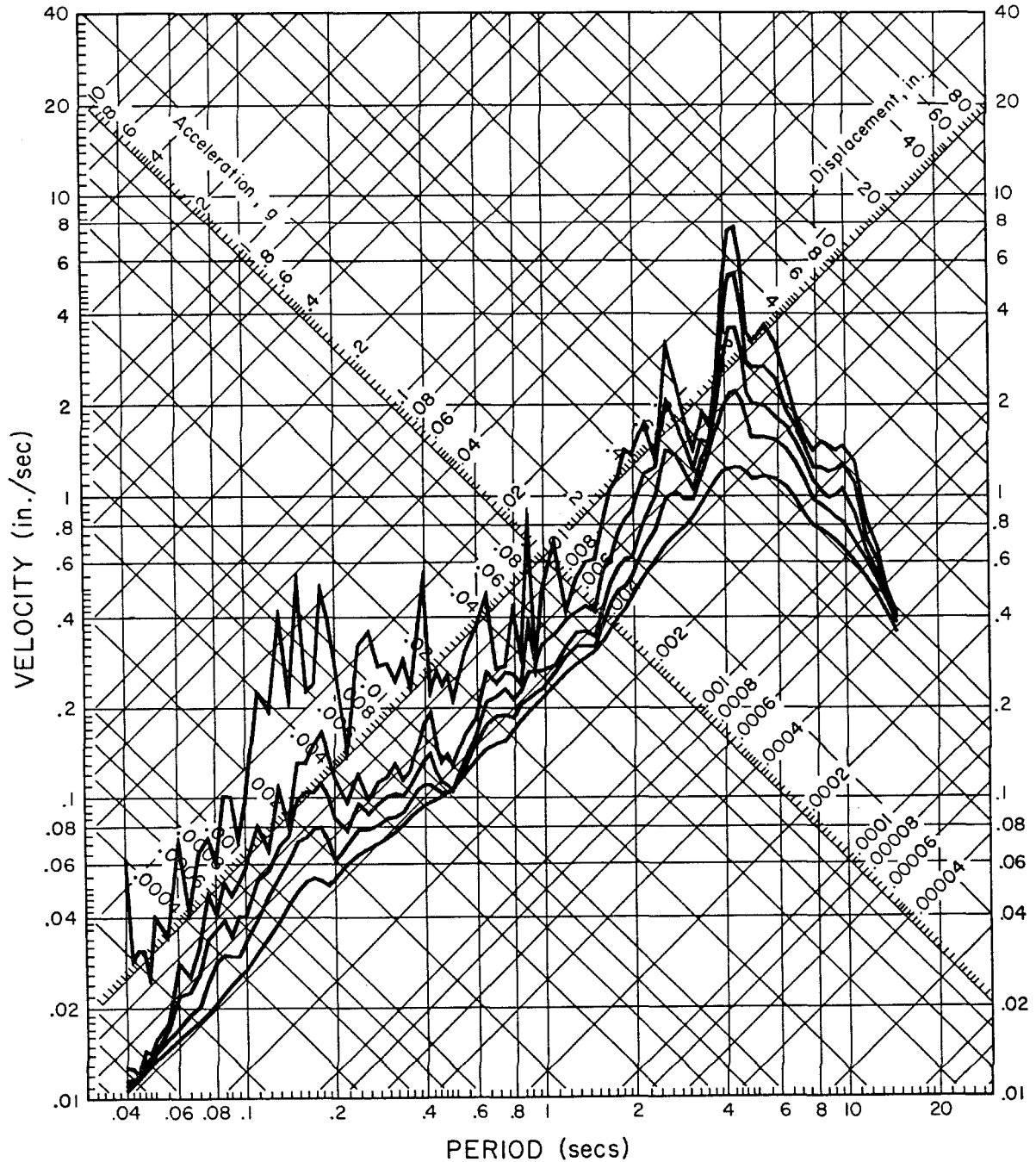


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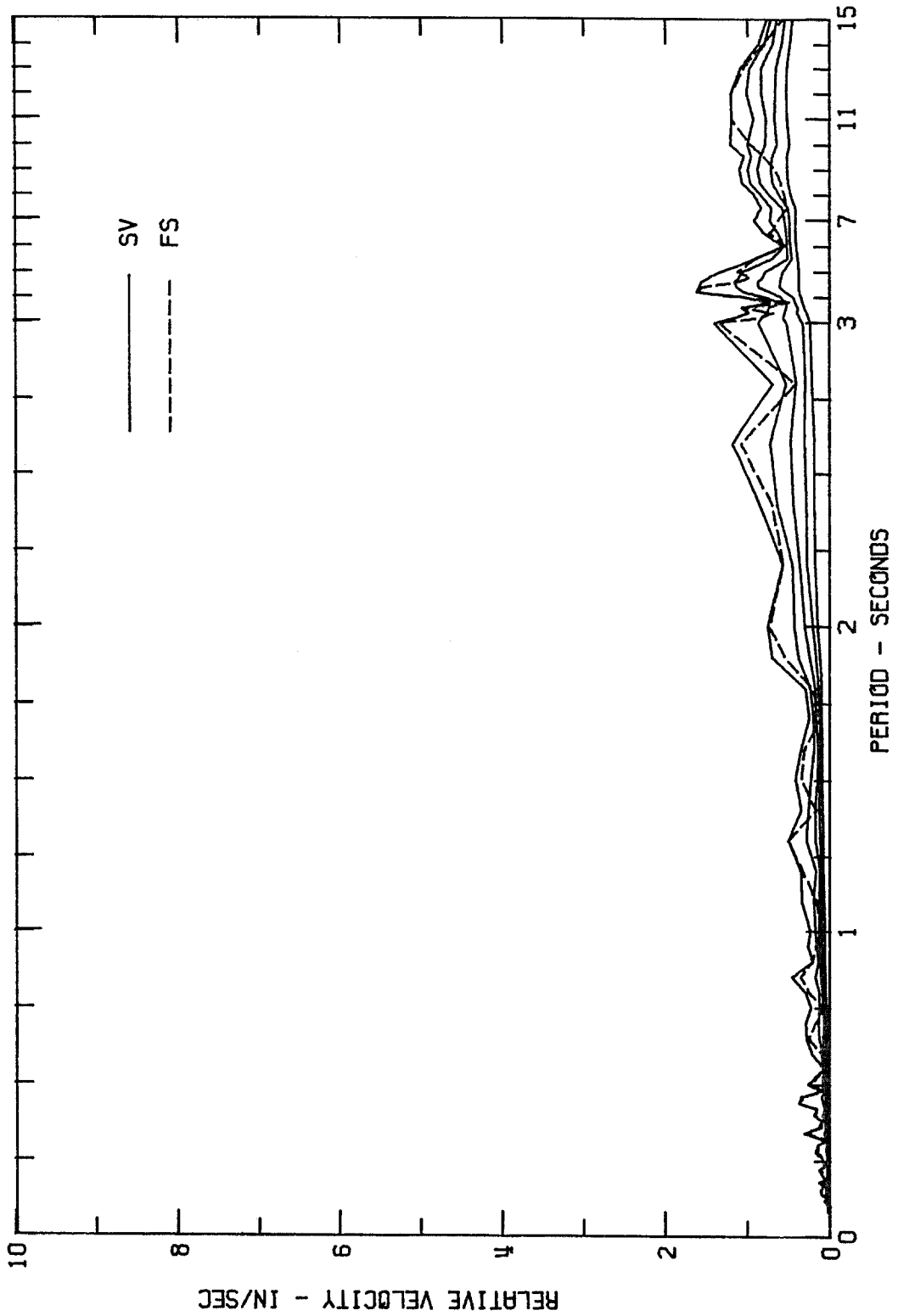
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RELATIVE VELOCITY RESPONSE SPECTRUM

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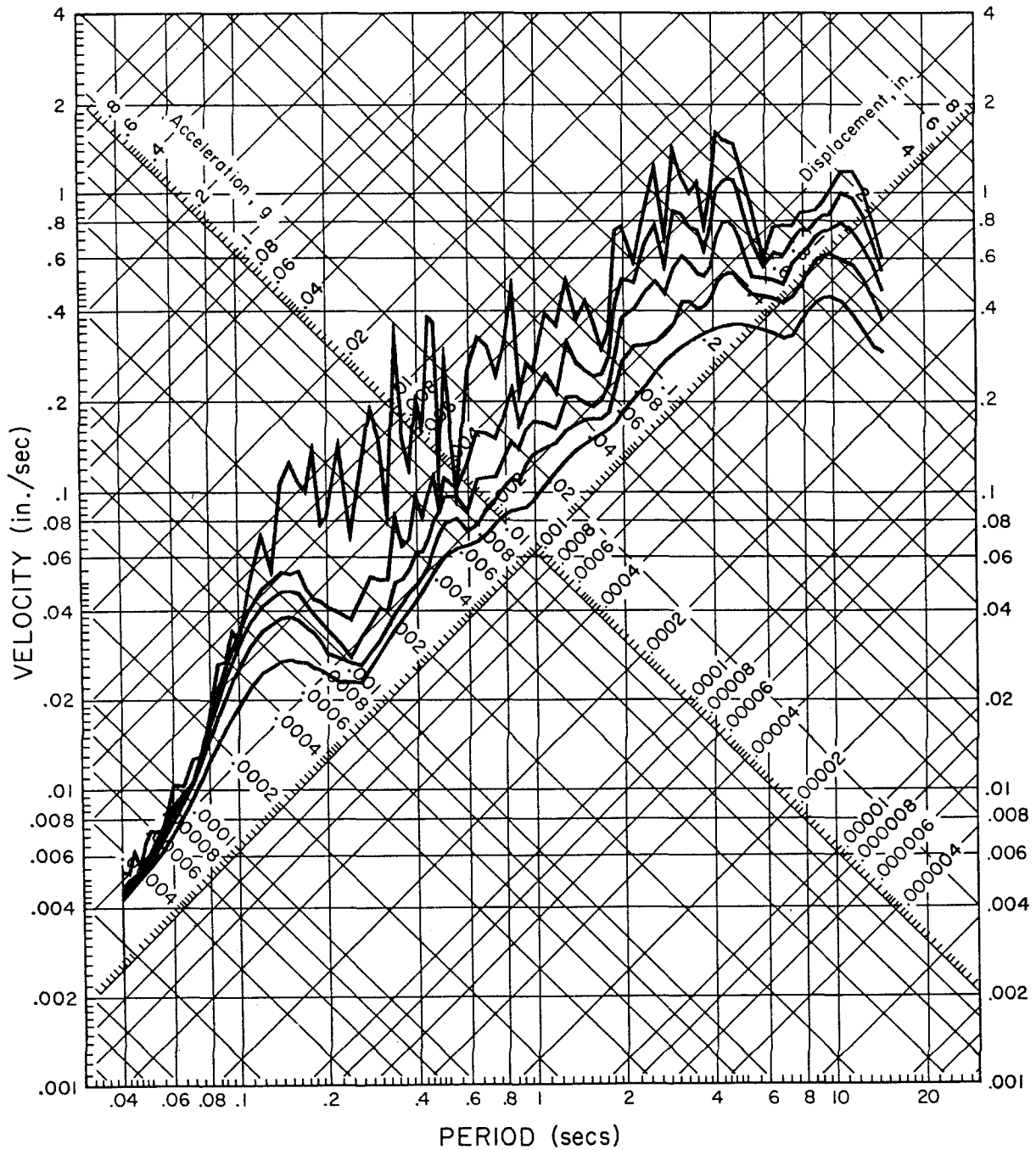


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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +203.0 SEC.

IIIT282 40.001.6 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

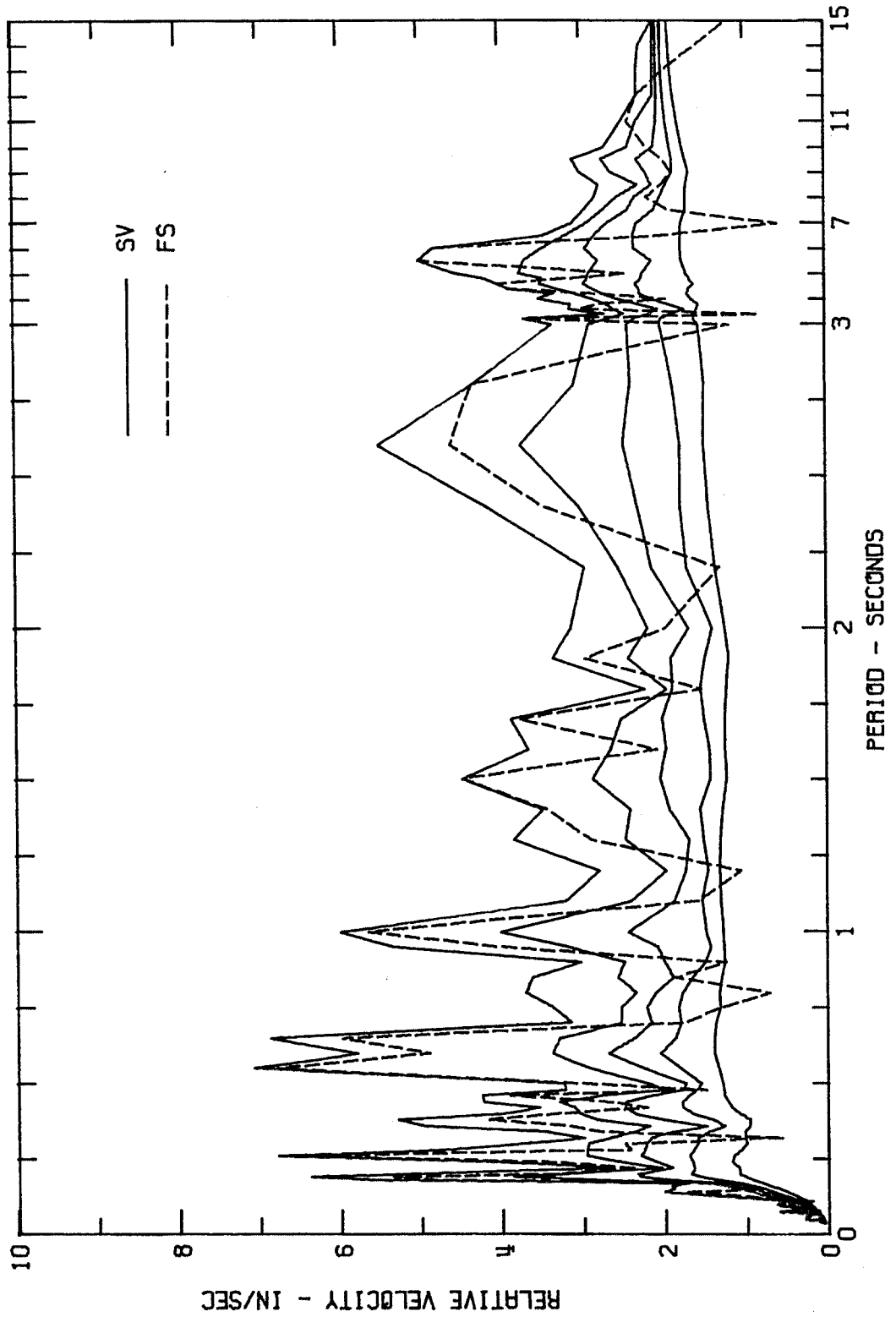
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0.180	985-4	400-5	134-3	126-4	139-3	126-5	407-4	399-5	439-4	112-5	342-4	357-5	392-4	969-6	297-4	308-5	338-4	738-6	234-4	250-5	257-4
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0.200	351-4	268-5	802-4	686-5	843-4	132-5	355-4	336-5	414-4	110-5	289-4	280-5	347-4	920-6	259-4	248-5	268-4	779-6	221-4	207-5	244-4
0.220	119-3	509-5	135-3	107-4	145-3	138-5	368-4	294-5	396-4	110-5	269-4	232-5	314-4	974-6	231-4	203-5	278-4	807-6	210-4	186-5	230-4
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0.300	153-3	731-5	152-3	831-5	153-3	243-5	453-4	277-5	511-4	196-5	299-4	222-5	412-4	152-5	231-4	173-5	319-4	137-5	196-4	158-5	288-4
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0.500	241-3	222-4	277-3	909-5	279-3	898-5	955-4	367-5	112-3	775-5	722-4	317-5	974-4	630-5	528-4	261-5	792-4	487-5	330-4	206-5	612-4
0.520	723-4	858-5	730-4	290-5	980-4	903-5	779-4	306-5	103-3	853-5	688-4	291-5	975-4	722-5	527-4	247-5	824-4	571-5	345-4	202-5	653-4
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IIIT282 40.001.6 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	DAMPING = 0 PER CENT	DAMPING = 2 PER CENT	DAMPING = 5 PER CENT	DAMPING = 10 PER CENT	DAMPING = 20 PER CENT	PSV	SA	SV	SD	PSV	
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0.80	260-3	406-4	305-3	650-5	319-3	233-4	136-3	372-5	183-3	166-4	944-4	267-5	131-3	133-4	767-4	217-5	105-3	521-4	107-4	844-4
0.85	361-3	660-4	479-3	935-5	488-3	303-4	184-3	430-5	224-3	201-4	111-3	286-5	149-3	151-4	866-4	217-5	111-3	584-4	118-4	885-4
0.90	211-3	307-4	214-3	388-5	214-3	241-4	149-3	303-5	168-3	201-4	124-3	255-5	140-3	157-4	953-4	201-5	109-3	629-4	127-4	819-4
0.95	171-3	410-4	277-3	465-5	271-3	301-4	169-3	342-5	199-3	246-4	134-3	280-5	163-3	188-4	100-3	216-5	124-3	657-4	135-4	898-4
1.00	109-3	407-4	241-3	416-5	256-3	336-4	180-3	345-5	211-3	276-4	135-3	283-5	173-3	213-4	102-3	220-5	133-3	678-4	150-4	942-4
1.10	162-3	698-4	359-3	590-5	398-3	440-4	205-3	371-5	251-3	299-4	133-3	254-5	171-3	248-4	106-3	211-5	141-3	764-4	186-4	106-3
1.20	336-3	693-4	366-3	492-5	362-3	410-4	178-3	291-5	214-3	315-4	127-3	224-5	165-3	281-4	105-3	202-5	147-3	842-4	225-4	118-3
1.30	515-3	107-3	517-3	647-5	517-3	664-4	299-3	402-5	321-3	433-4	182-3	263-5	209-3	335-4	122-3	205-5	161-3	893-4	266-4	128-3
1.40	169-3	847-4	355-3	442-5	380-3	604-4	261-3	315-5	271-3	468-4	188-3	245-5	210-3	377-4	133-3	199-5	928-4	308-4	167-5	138-3
1.50	361-3	104-3	427-3	475-5	437-3	611-4	233-3	277-5	256-3	476-4	159-3	217-5	199-3	420-4	123-3	194-5	947-4	348-4	166-5	146-3
1.60	317-3	946-4	357-3	378-5	371-3	624-4	197-3	249-5	245-3	495-4	148-3	198-5	194-3	451-4	119-3	183-5	959-4	386-4	163-5	151-3
1.70	116-3	818-4	258-3	289-5	302-3	676-4	209-3	239-5	250-3	551-4	171-3	195-5	203-3	478-4	127-3	172-5	876-4	597-4	156-5	156-3
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1.90	556-3	230-3	710-3	652-5	761-3	131-3	399-3	373-5	435-3	900-4	255-3	255-5	297-3	682-4	216-3	228-5	225-3	519-4	162-5	171-3
2.00	741-3	250-3	765-3	640-5	786-3	165-3	445-3	424-5	520-3	122-3	311-3	315-5	385-3	878-4	216-3	228-5	276-3	597-4	162-5	187-3
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2.40	709-3	343-3	869-3	609-5	898-3	261-3	654-3	464-5	683-3	180-3	456-3	321-5	472-3	119-3	298-3	216-5	311-3	876-4	198-3	229-3
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3.00	135-2	686-3	141-2	780-5	143-2	425-3	873-3	483-5	891-3	272-3	538-3	310-5	570-3	177-3	334-3	205-5	371-3	140-3	245-3	295-3
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3.40	684-3	550-3	987-3	486-5	101-2	421-3	755-3	373-5	778-3	316-3	557-3	281-5	584-3	235-3	405-3	212-5	435-3	174-3	288-3	322-3
3.60	107-2	638-3	107-2	503-5	111-2	435-3	747-3	343-5	759-3	309-3	530-3	245-5	540-3	235-3	395-3	189-5	410-3	190-3	313-3	333-3
3.80	456-3	471-3	729-3	533-5	779-3	390-3	617-3	276-5	645-3	320-3	524-3	228-5	530-3	256-3	426-3	184-5	423-3	206-3	335-3	342-3
4.00	104-2	678-3	104-2	433-5	106-2	507-3	785-3	324-5	796-3	366-3	602-3	235-5	576-3	286-3	451-3	187-5	450-3	222-3	359-3	349-3
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5.00	112-2	102-2	132-2	418-5	128-2	785-3	105-2	321-5	986-3	559-3	786-3	230-5	702-3	404-3	571-3	169-5	507-3	291-3	389-3	366-3
5.50	904-3	794-3	907-3	268-5	907-3	608-3	704-3	205-5	695-3	461-3	514-3	156-5	526-3	403-3	464-3	139-5	460-3	314-3	394-3	359-3
6.00	500-3	577-3	578-3	164-5	605-3	544-3	556-3	154-5	569-3	498-3	526-3	142-5	521-3	433-3	482-3	125-5	453-3	334-3	412-3	350-3
6.50	733-3	809-3	801-3	195-5	782-3	658-3	633-3	159-5	636-3	531-3	535-3	129-5	513-3	460-3	492-3	113-5	445-3	353-3	422-3	341-3
7.00	626-3	883-3	927-3	184-5	792-3	693-3	735-3	144-5	622-3	553-3	552-3	116-5	497-3	479-3	494-3	103-5	430-3	368-3	426-3	330-3
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8.50	595-3	119-2	107-2	168-5	881-3	102-2	974-3	145-5	759-3	898-3	853-3	127-5	664-3	745-3	702-3	107-5	550-3	554-3	516-3	409-3
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14.00	812-3	181-2	868-3	946-6	814-3	151-2	791-3	791-6	679-3	127-2	691-3	670-6	573-3	988-3	585-3	521-6	443-3	686-3	489-3	308-3
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RELATIVE VELOCITY RESPONSE SPECTRUM
IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +242.0 SEC.
111T283 40.001.7 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

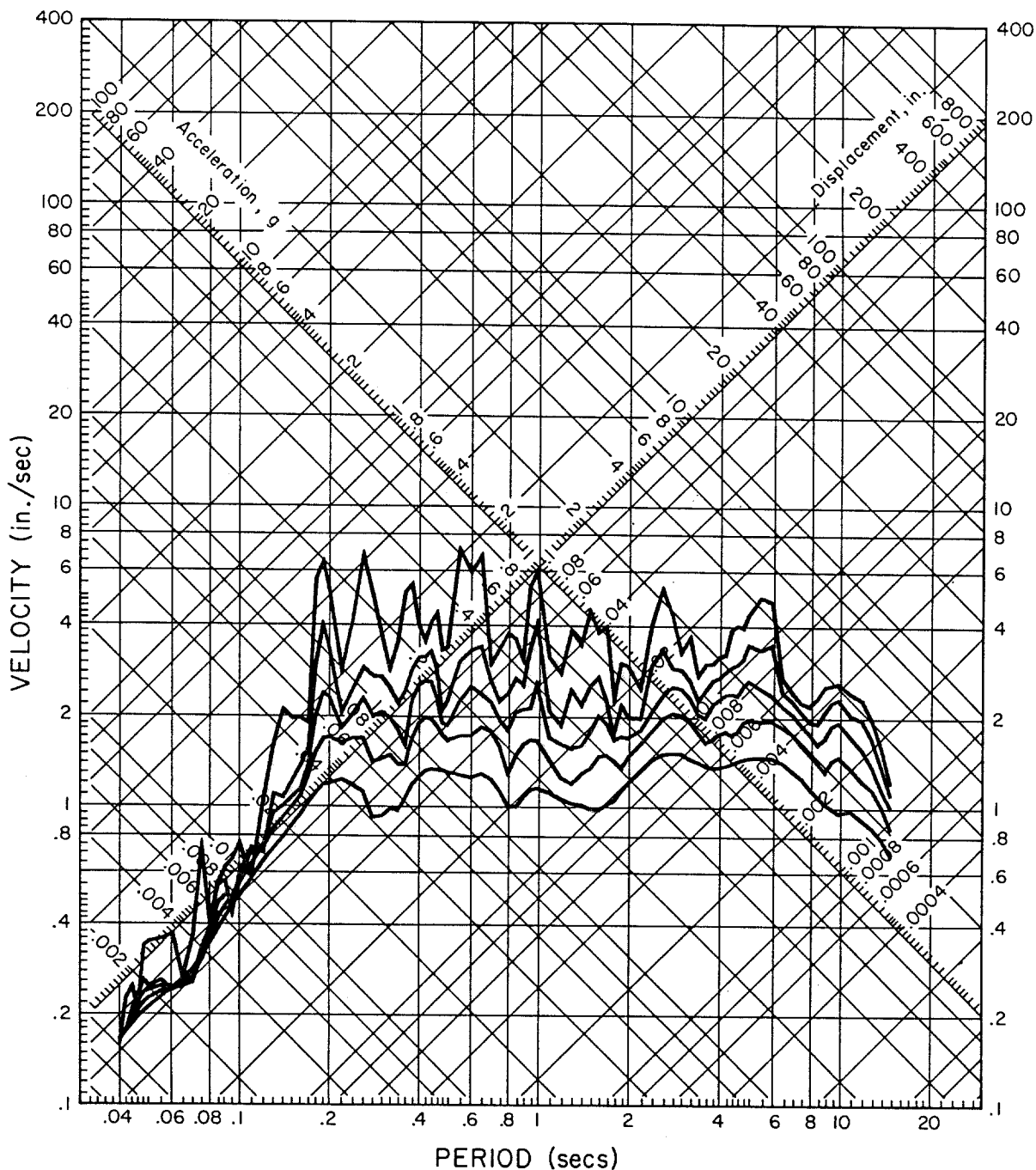


RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +242.0 SEC.

IIIT283 40.001.7 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



	EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT	COMP NORTH
IIIT283	40.001.7	

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT				
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	654-4	101-5	814-4	646-4	158-3	103-5	674-4	662-4	162-3	103-5	595-4	664-4	163-3	104-5	504-4	674-4	164-3	104-5	412-4	680-4	164-3
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0.044	763-4	173-5	115-3	916-4	247-3	145-5	859-4	766-4	207-3	138-5	770-4	731-4	197-3	133-5	628-4	712-4	190-3	129-5	500-4	691-4	184-3
0.046	139-3	148-5	159-3	717-4	302-3	170-5	117-3	822-4	232-3	159-5	931-4	776-4	218-3	150-5	698-4	729-4	205-3	142-5	542-4	695-4	194-3
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0.060	231-3	352-5	291-3	100-3	369-3	229-5	125-3	654-4	240-3	230-5	111-3	653-4	241-3	230-5	993-4	663-4	241-3	232-5	855-4	667-4	243-3
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0.090	340-3	891-5	425-3	112-3	622-3	795-5	346-3	100-3	555-3	715-5	274-3	906-4	499-3	662-5	223-3	840-4	462-3	606-5	193-3	787-4	423-3
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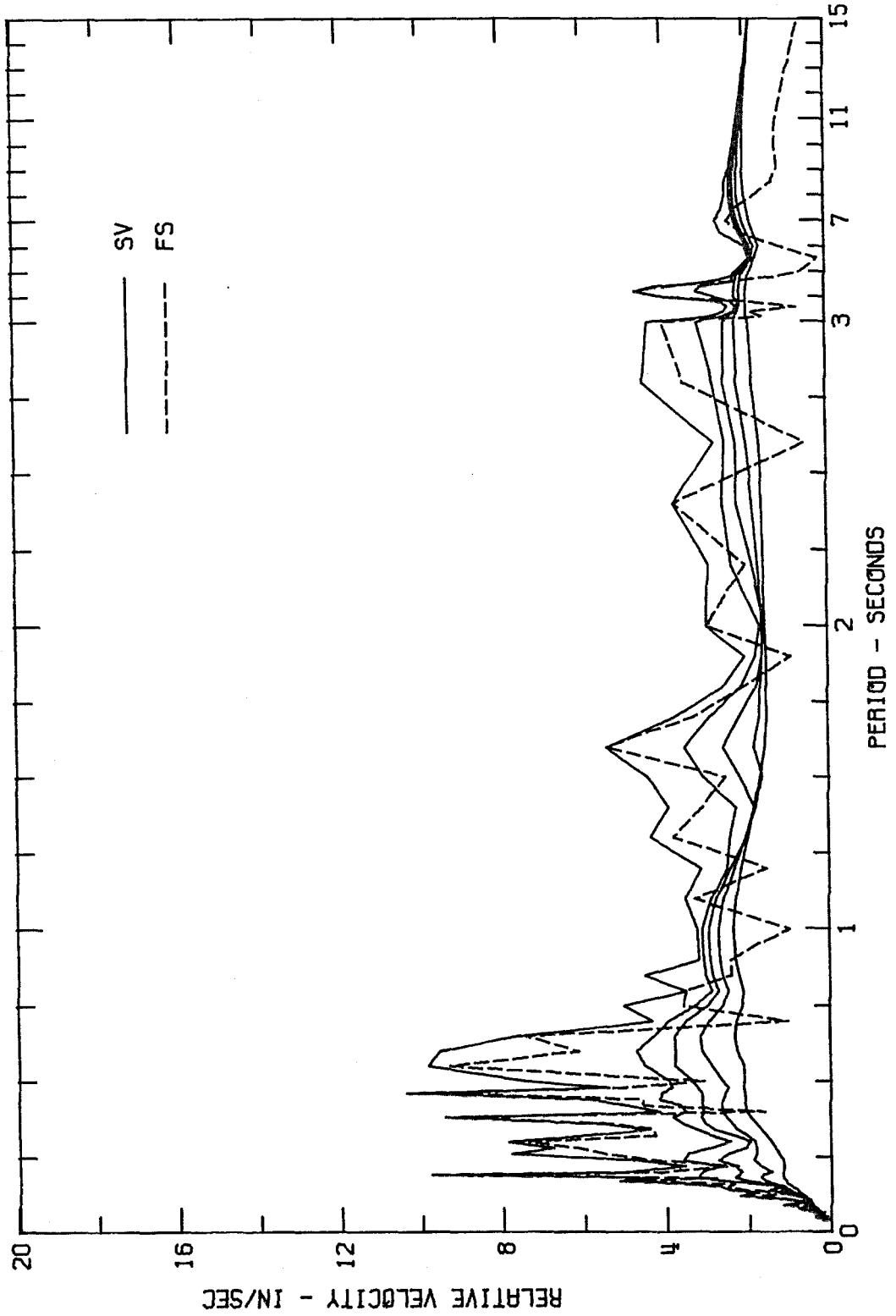
IIIT283 40.001.7 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +242.0 SEC.
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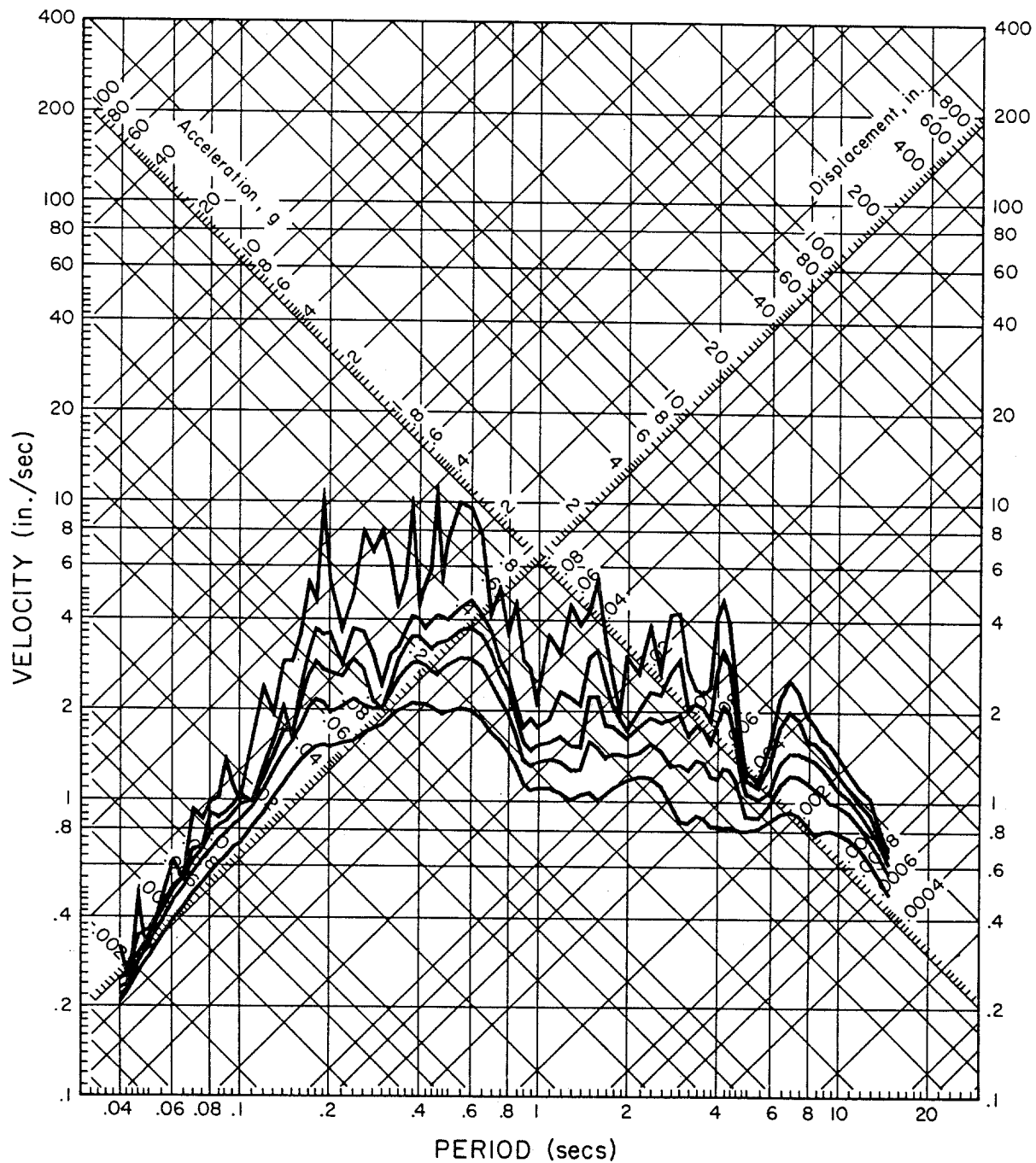


RESPONSE SPECTRUM

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IIIT283 40.001.7 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +242.0 SEC.

1111283 40.001.7 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.046	372-3	340-5	400-3	164-3	465-3	249-5	184-3	121-3	341-3	218-5	155-3	105-3	298-3	203-5	138-3	995-4	278-3
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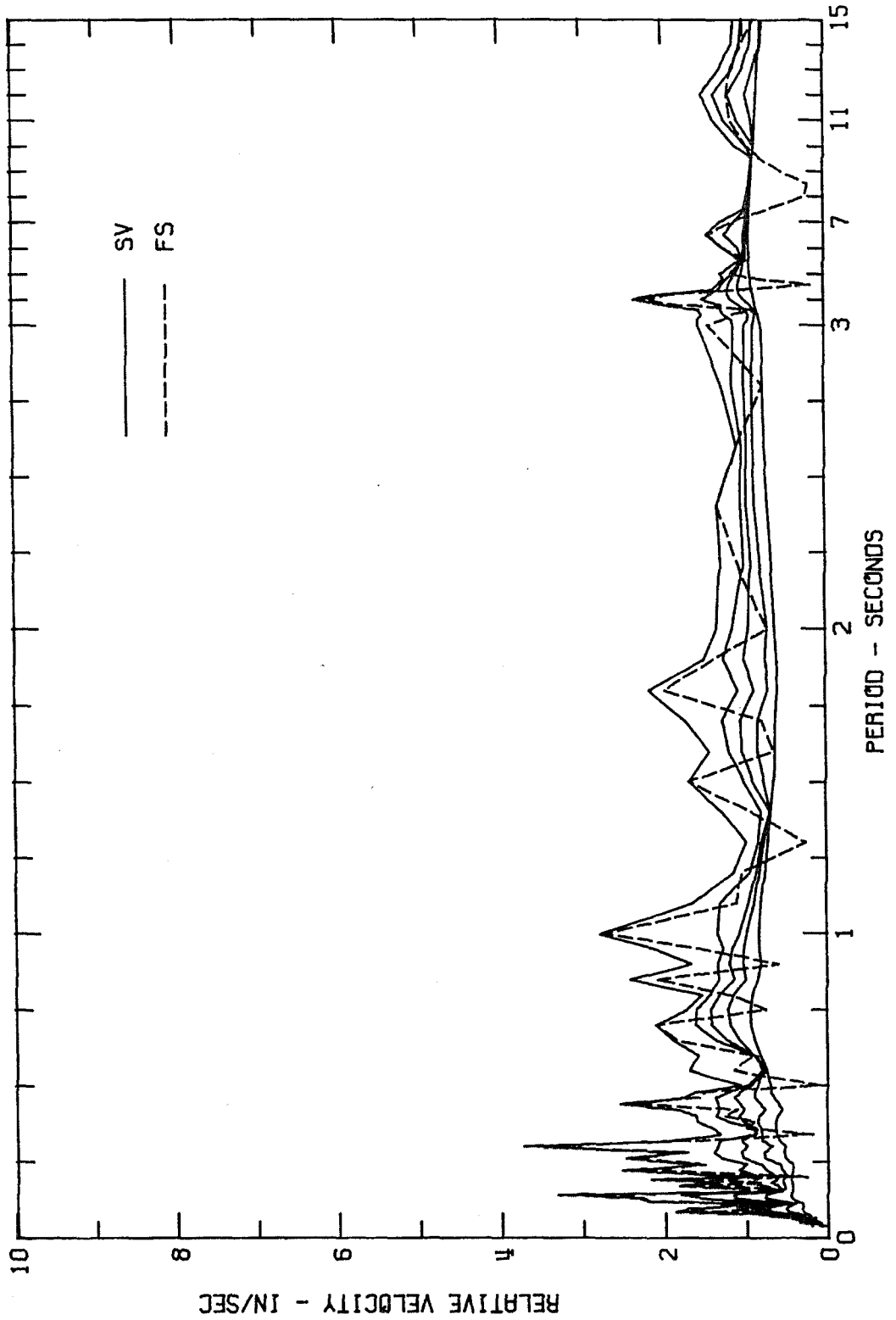
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RELATIVE VELOCITY RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +242.0 SEC.
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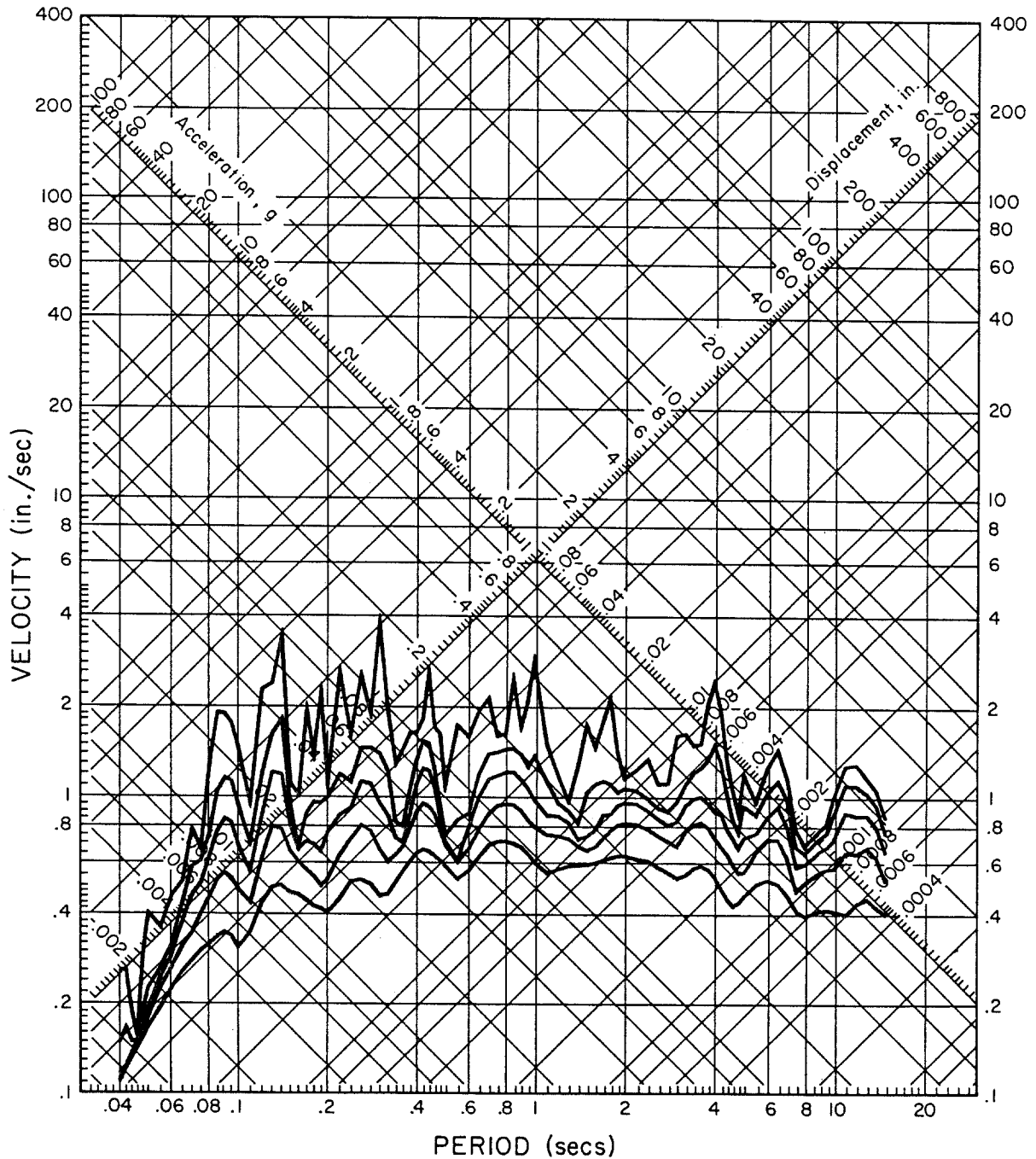


RESPONSE SPECTRUM

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IIIT283 40.001.7 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IIIT283 40.001.7 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT CCMF UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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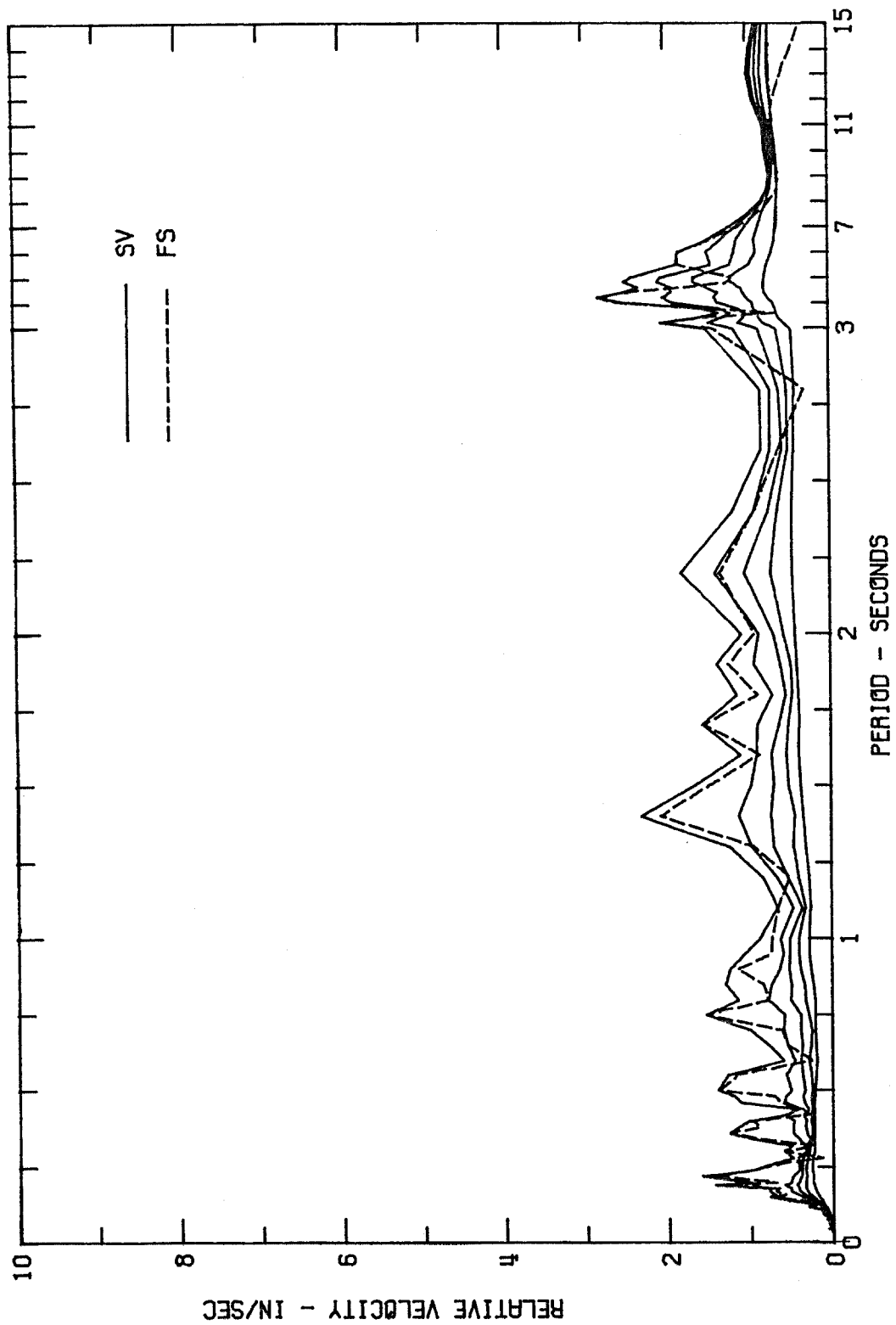
111T283 40.001.7 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +282.5 SEC.
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

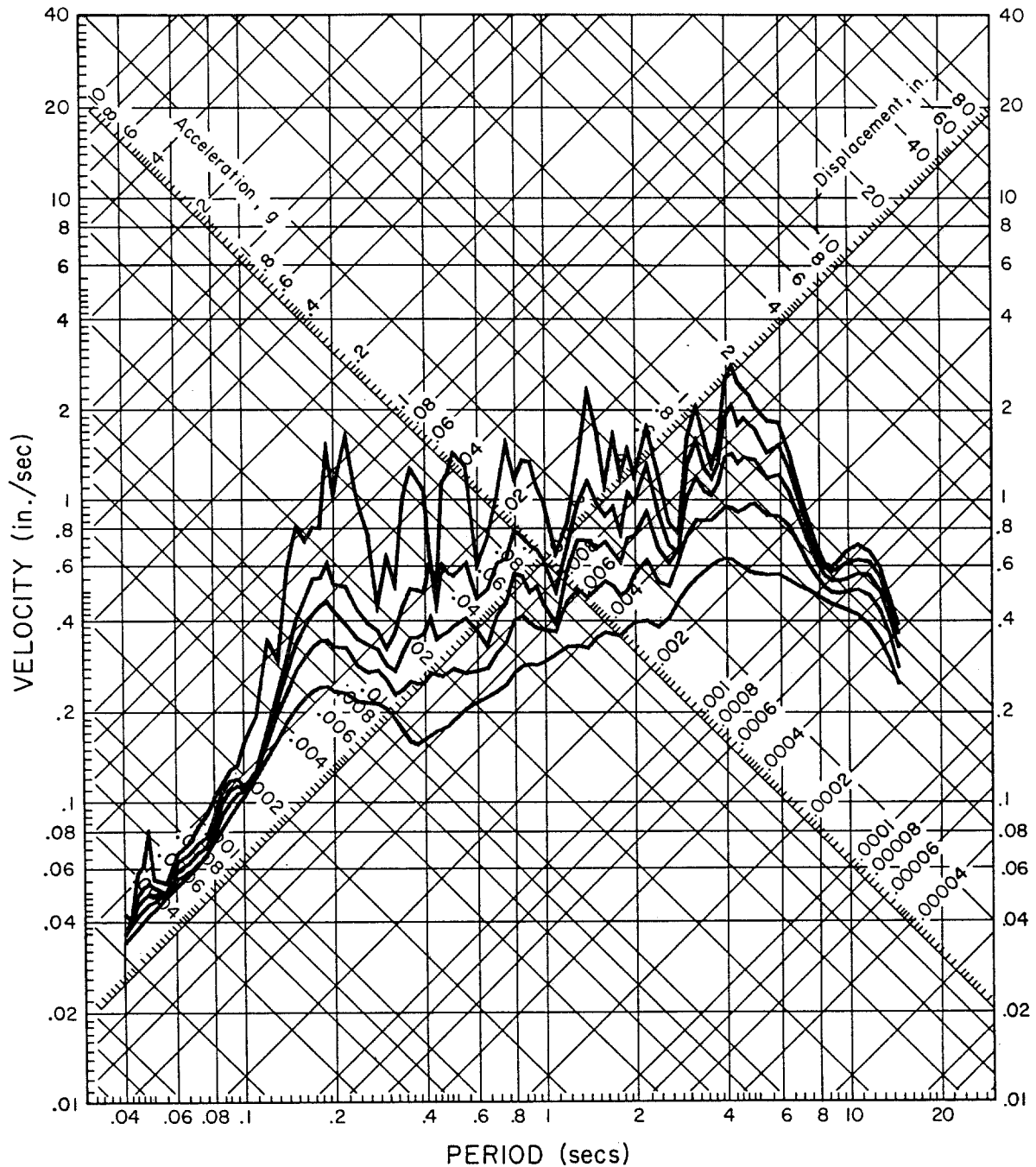


RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +282.5 SEC.

IIIT284 40.001.8 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



40-001-8	FI	CENTRO.	IMPERIAL VALLEY IRRIGATION DISTRICT	COMP NORTH
IIIT284				

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

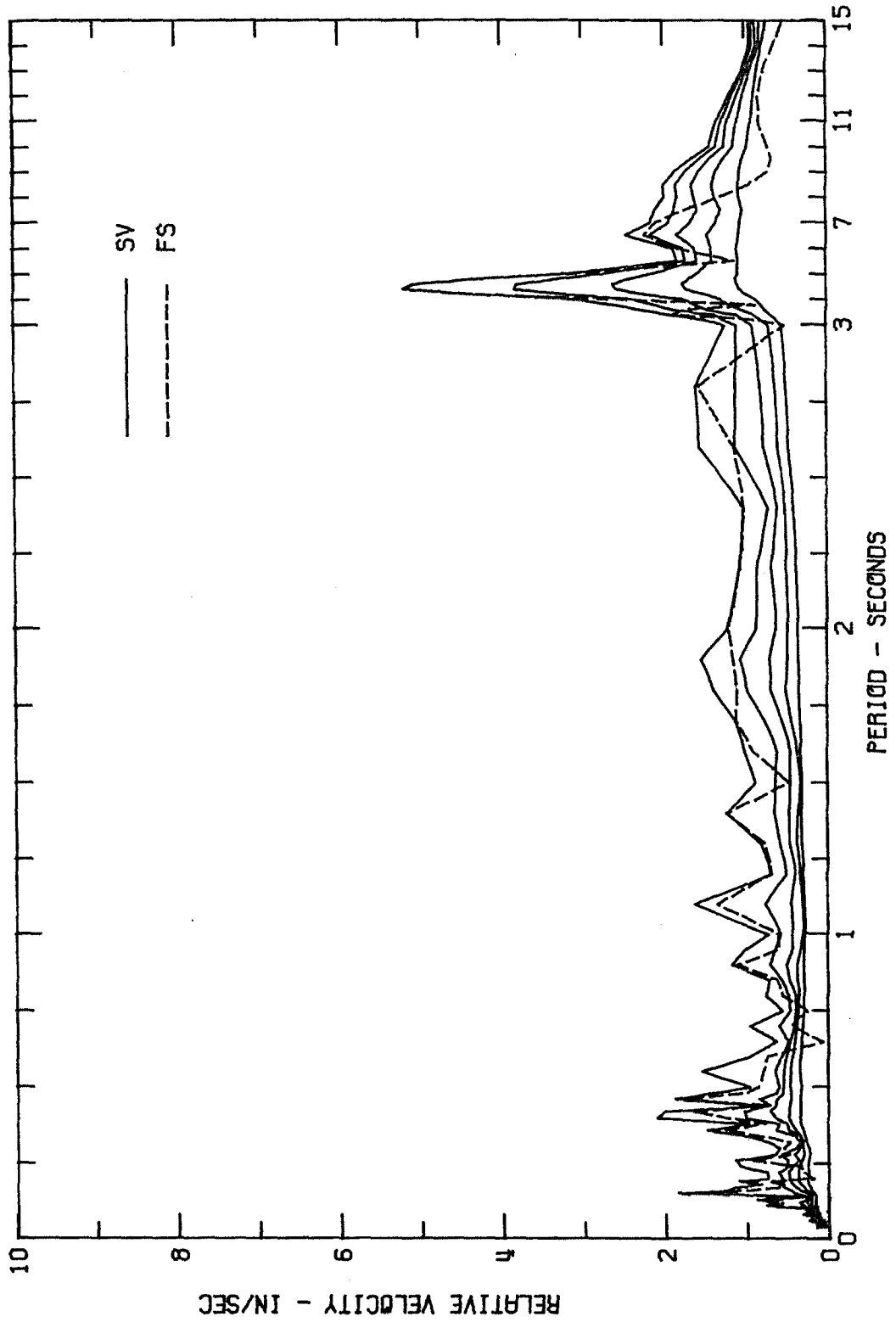
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IIIT284 40.001.8 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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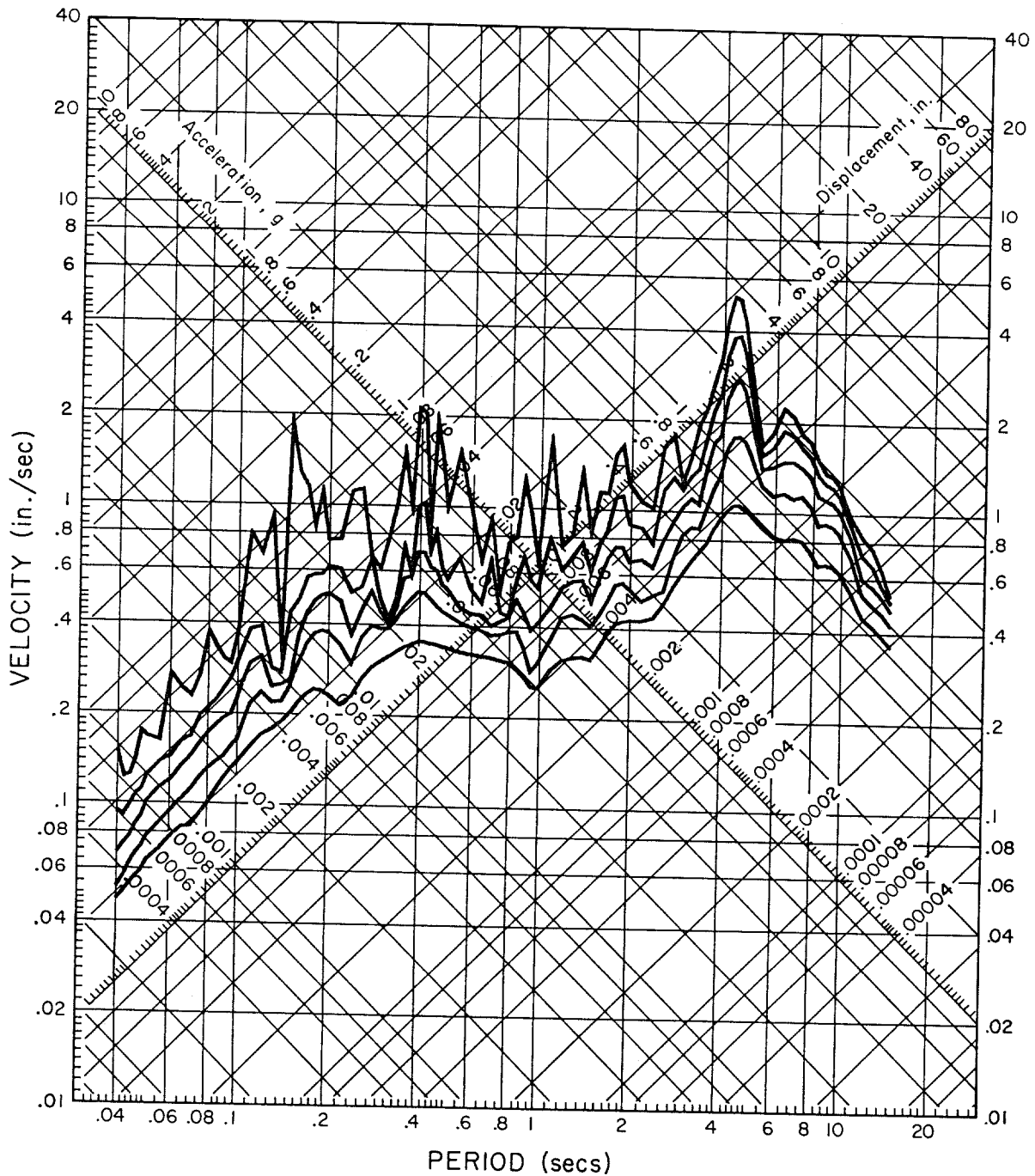


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IIIT284 40.001.8 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +282.5 SEC.

111T284 40.001.8 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

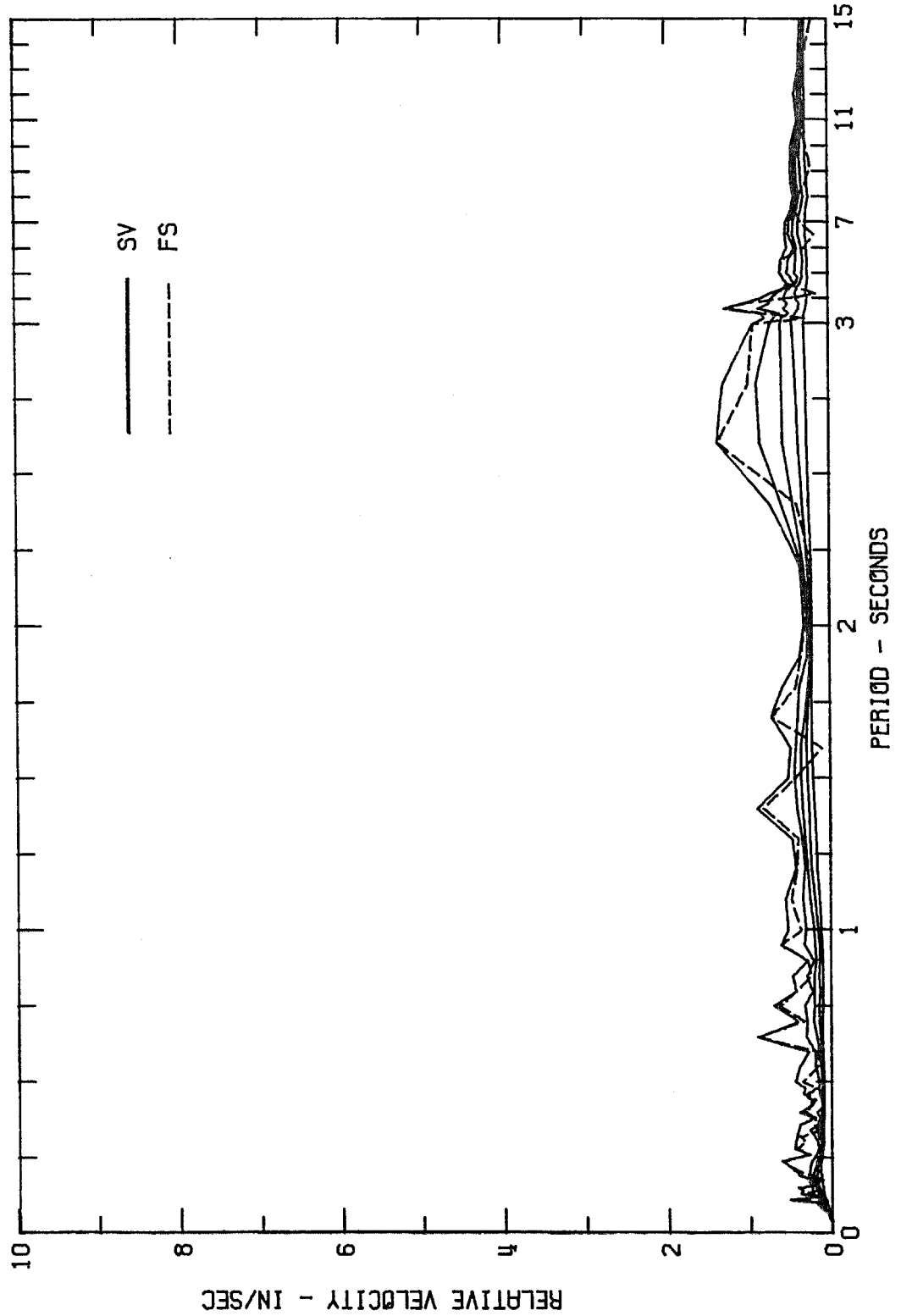
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0.130	684-3	189-4	889-3	114-3	914-3	583-5	278-3	353-4	281-3	507-5	252-3	311-4	245-3	450-5	211-3	280-4	217-3	365-5	162-3	232-4
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0.150	184-2	448-4	184-2	203-3	187-2	104-4	422-3	477-4	431-3	617-5	242-3	285-4	258-3	591-5	215-3	268-4	247-3	479-5	172-3	231-4
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0.170	628-3	311-4	114-2	110-3	114-2	153-4	543-3	544-4	568-3	117-4	408-3	413-4	476-3	105-4	347-3	340-4	368-3	689-5	243-3	234-4
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0.190	744-3	334-4	110-2	949-4	110-2	176-4	564-3	503-4	583-3	149-4	480-3	429-4	495-3	114-4	383-3	333-4	377-3	721-5	261-3	223-4
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0.220	334-3	268-4	763-3	566-4	765-3	213-4	622-3	449-4	608-3	165-4	509-3	346-4	473-3	118-4	389-3	255-4	339-3	749-5	252-3	184-4
0.240	344-3	425-4	108-2	755-4	111-2	193-4	500-3	344-4	507-3	139-4	453-3	254-4	365-3	111-4	371-3	206-4	293-3	875-5	262-3	164-4
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0.300	563-3	292-4	603-3	332-4	612-3	229-4	408-3	262-4	480-3	209-4	355-3	241-4	438-3	184-4	315-3	215-4	386-3	142-4	248-3	172-4
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0.360	127-2	872-4	149-2	688-4	152-2	419-4	647-3	331-4	731-3	327-4	490-3	262-4	572-3	263-4	401-3	212-4	459-3	192-4	315-3	161-4
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0.400	124-2	134-3	211-2	862-4	211-2	637-4	101-2	409-4	100-2	443-4	657-3	283-4	696-3	327-4	490-3	210-4	514-3	223-4	356-3	151-4
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0.480	102-2	111-3	146-2	495-4	146-2	473-4	646-3	209-4	619-3	417-4	561-3	186-4	546-3	339-4	469-3	153-4	444-3	258-4	345-3	122-4
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0.550	792-3	133-3	155-2	452-4	152-2	589-4	653-3	198-4	673-3	402-4	543-3	137-4	459-3	358-4	467-3	123-4	409-3	285-4	352-3	103-4
0.600	747-3	948-4	960-3	269-4	992-3	506-4	576-3	144-4	530-3	417-4	519-3	119-4	437-3	376-4	449-3	109-4	394-3	305-4	347-3	931-5
0.650	778-4	680-4	633-3	164-4	657-3	492-4	454-3	118-4	476-3	449-4	472-3	109-4	434-3	398-4	417-3	986-5	385-3	327-4	337-3	852-5
0.700	458-3	101-3	964-3	210-4	907-3	737-4	601-3	154-4	662-3	446-4	412-3	935-5	400-3	413-4	387-3	884-5	371-3	347-4	317-3	789-5

IIIT284 40.001.8 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	DAMPING = 0 PER CENT	DAMPING = 2 PER CENT	DAMPING = 5 PER CENT	DAMPING = 10 PER CENT	DAMPING = 20 PER CENT
0.75	260-3	629-4	552-3	114-4	527-3	529-4	466-3	963-5	443-3	493-4	391-3	899-5	413-3	446-4	360-3	832-5	373-3	366-4	295-3	731-5	307-3	
0.80	562-3	973-4	767-3	155-4	764-3	549-4	486-3	876-5	431-3	543-4	399-3	873-5	427-3	486-4	351-3	801-5	381-3	384-4	296-3	682-5	302-3	
0.85	636-3	107-3	723-3	152-4	795-3	779-4	571-3	110-4	576-3	664-4	480-3	948-5	491-3	519-4	387-3	759-5	383-3	390-4	303-3	624-5	288-3	
0.90	111-2	179-3	118-2	226-4	125-2	978-4	713-3	123-4	682-3	631-4	515-3	802-5	441-3	483-4	386-3	630-5	337-3	389-4	200-3	559-5	271-3	
0.95	603-3	144-3	100-2	163-4	955-3	858-4	649-3	972-5	568-3	588-4	439-3	668-5	388-3	428-4	333-3	489-5	283-3	381-4	293-3	501-5	252-3	
1.00	606-3	106-3	720-3	109-4	669-3	859-4	575-3	879-5	539-3	653-4	435-3	671-5	410-3	480-4	307-3	498-5	301-3	397-4	286-3	456-5	249-3	
1.10	136-2	291-3	164-2	246-4	166-2	139-3	778-3	117-4	794-3	818-4	452-3	694-5	467-3	634-4	312-3	544-5	362-3	503-4	290-3	456-5	287-3	
1.20	689-3	142-3	692-3	100-4	743-3	118-3	506-3	843-5	620-3	103-3	399-3	737-5	541-3	820-4	343-3	594-5	429-3	592-4	308-3	458-5	310-3	
1.30	773-3	169-3	821-3	102-4	818-3	143-3	599-3	868-5	693-3	118-3	471-3	717-5	571-3	912-4	387-3	557-5	441-3	653-4	321-3	418-5	315-3	
1.40	124-2	298-3	123-2	155-4	133-2	172-3	655-3	899-5	773-3	128-3	478-3	671-5	576-3	946-4	362-3	502-5	424-3	711-4	323-3	384-5	319-3	
1.50	482-3	197-3	882-3	899-5	828-3	146-3	643-3	667-5	614-3	115-3	463-3	529-5	485-3	961-4	336-3	444-5	402-3	745-4	324-3	357-5	312-3	
1.60	903-3	290-3	101-2	115-4	114-2	194-3	613-3	776-5	762-3	149-3	454-3	601-5	588-3	113-3	374-3	461-5	446-3	884-4	334-3	375-5	347-3	
1.70	112-2	305-3	113-2	108-4	113-2	231-3	777-3	818-5	854-3	186-3	565-3	662-5	689-3	134-3	456-3	482-5	497-3	104-3	349-3	397-5	386-3	
1.80	110-2	437-3	139-2	138-4	152-2	314-3	980-3	992-5	109-2	214-3	699-3	680-5	748-3	171-3	496-3	498-5	567-3	127-3	362-3	400-5	421-3	
1.90	116-2	494-3	155-2	140-4	163-2	336-3	107-2	952-5	111-2	226-3	717-3	642-5	747-3	171-3	496-3	498-5	567-3	127-3	362-3	400-5	421-3	
2.00	121-2	386-3	121-2	899-5	121-2	283-3	864-3	726-5	891-3	212-3	624-3	546-5	668-3	172-3	489-3	450-5	542-3	135-3	360-3	382-5	425-3	
2.20	108-2	373-3	108-2	789-5	106-2	304-3	853-3	643-5	869-3	238-3	680-3	506-5	681-3	173-3	508-3	376-5	494-3	148-3	382-3	337-5	423-3	
2.40	101-2	387-3	101-2	687-5	101-2	294-3	718-3	522-5	770-3	245-3	607-3	438-5	642-3	197-3	517-3	362-5	517-3	166-3	416-3	308-5	435-3	
2.60	113-2	680-3	156-2	102-4	164-2	484-3	112-2	734-5	117-2	325-3	770-3	500-5	796-3	221-3	603-3	340-5	536-3	200-3	471-3	319-5	485-3	
2.80	157-2	797-3	160-2	104-4	178-2	576-3	111-2	752-5	129-2	411-3	819-3	539-5	922-3	310-3	632-3	409-5	696-3	247-3	506-3	343-5	556-3	
3.00	510-3	590-3	123-2	671-5	123-2	562-3	110-2	639-5	117-2	494-3	914-3	564-5	103-2	396-3	712-3	459-5	830-3	295-3	556-3	360-5	618-3	
3.20	832-3	772-3	151-2	772-5	151-2	668-3	127-2	667-5	131-2	560-3	102-2	561-5	110-2	448-3	802-3	452-5	881-3	345-3	611-3	362-5	677-3	
3.40	187-2	106-2	192-2	943-5	196-2	752-3	137-2	666-5	139-2	568-3	110-2	505-5	105-2	470-3	890-3	424-5	870-3	394-3	681-3	367-5	729-3	
3.60	172-2	127-2	229-2	100-4	222-2	100-2	189-2	796-5	175-2	790-3	146-2	628-5	138-2	587-3	104-2	473-5	102-2	448-3	752-3	377-5	783-3	
3.80	865-3	163-2	263-2	115-4	270-2	132-2	212-2	939-5	218-2	103-2	161-2	738-5	170-2	722-3	119-2	534-5	119-2	529-3	806-3	398-5	875-3	
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4.20	438-2	293-2	438-2	169-4	438-2	221-2	321-2	128-4	331-2	160-2	224-2	933-5	239-2	108-2	148-2	642-5	162-2	672-3	990-3	424-5	100-2	
4.40	520-2	364-2	520-2	192-4	520-2	265-2	383-2	140-4	379-2	186-2	258-2	930-5	266-2	123-2	172-2	665-5	176-2	734-3	106-2	419-5	104-2	
4.60	508-2	371-2	507-2	179-4	507-2	282-2	380-2	136-4	385-2	201-2	262-2	979-5	275-2	130-2	176-2	642-5	177-2	769-3	109-2	402-5	105-2	
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6.00	185-2	177-2	187-2	503-5	185-2	157-2	175-2	447-5	164-2	135-2	160-2	387-5	142-2	108-2	140-2	314-5	113-2	788-3	107-2	247-5	825-3	
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7.00	209-2	233-2	215-2	486-5	209-2	200-2	193-2	419-5	180-2	164-2	166-2	345-5	148-2	124-2	135-2	269-5	111-2	913-3	105-2	221-5	819-3	
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9.50	667-3	199-2	164-2	226-5	131-2	183-2	154-2	208-5	121-2	162-2	142-2	187-5	107-2	136-2	125-2	160-5	899-3	100-2	102-2	127-5	661-3	
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12.00	835-3	159-2	118-2	112-5	833-3	137-2	114-2	978-6	720-3	115-2	108-2	825-6	602-3	102-2	101-2	774-6	534-3	865-3	839-3	698-6	418-3	
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14.00	649-3	144-2	933-3	751-6	646-3	126-2	900-3	663-6	569-3	116-2	854-3	619-6	524-3	102-2	810-3	563-6	462-3	865-3	783-3	622-6	360-3	
15.00	525-3	126-2	930-3	575-6	530-3	120-2	903-3	551-6	506-3	112-2	864-3	520-6	472-3	100-2	808-3	491-6	422-3	860-3	728-3	558-6	360-3	

RELATIVE VELOCITY RESPONSE SPECTRUM
IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +282.5 SEC.
1111T284 40.001.8 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

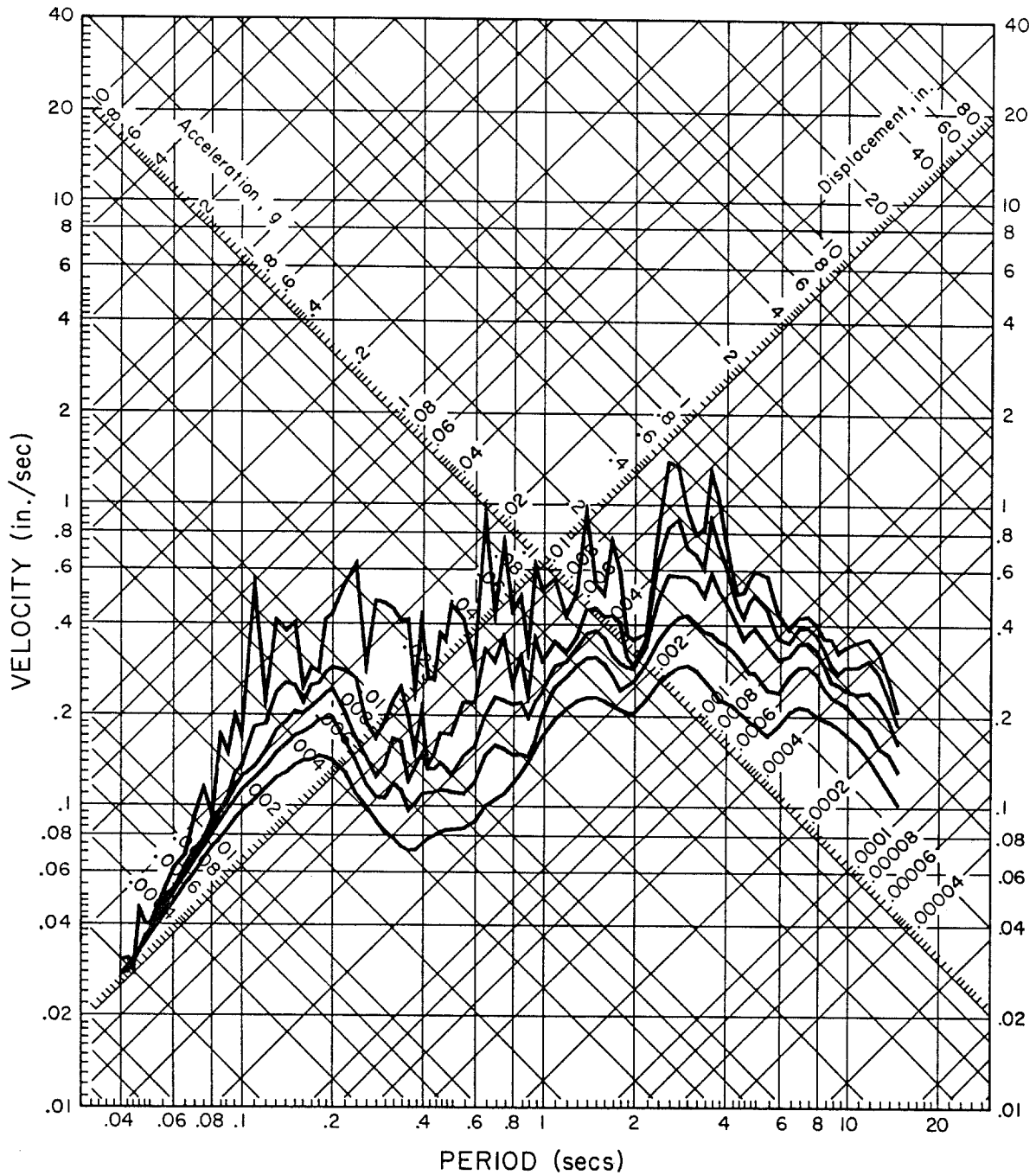


RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +282.5 SEC.

IIIT284 40.001.8 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +282.5 SEC.

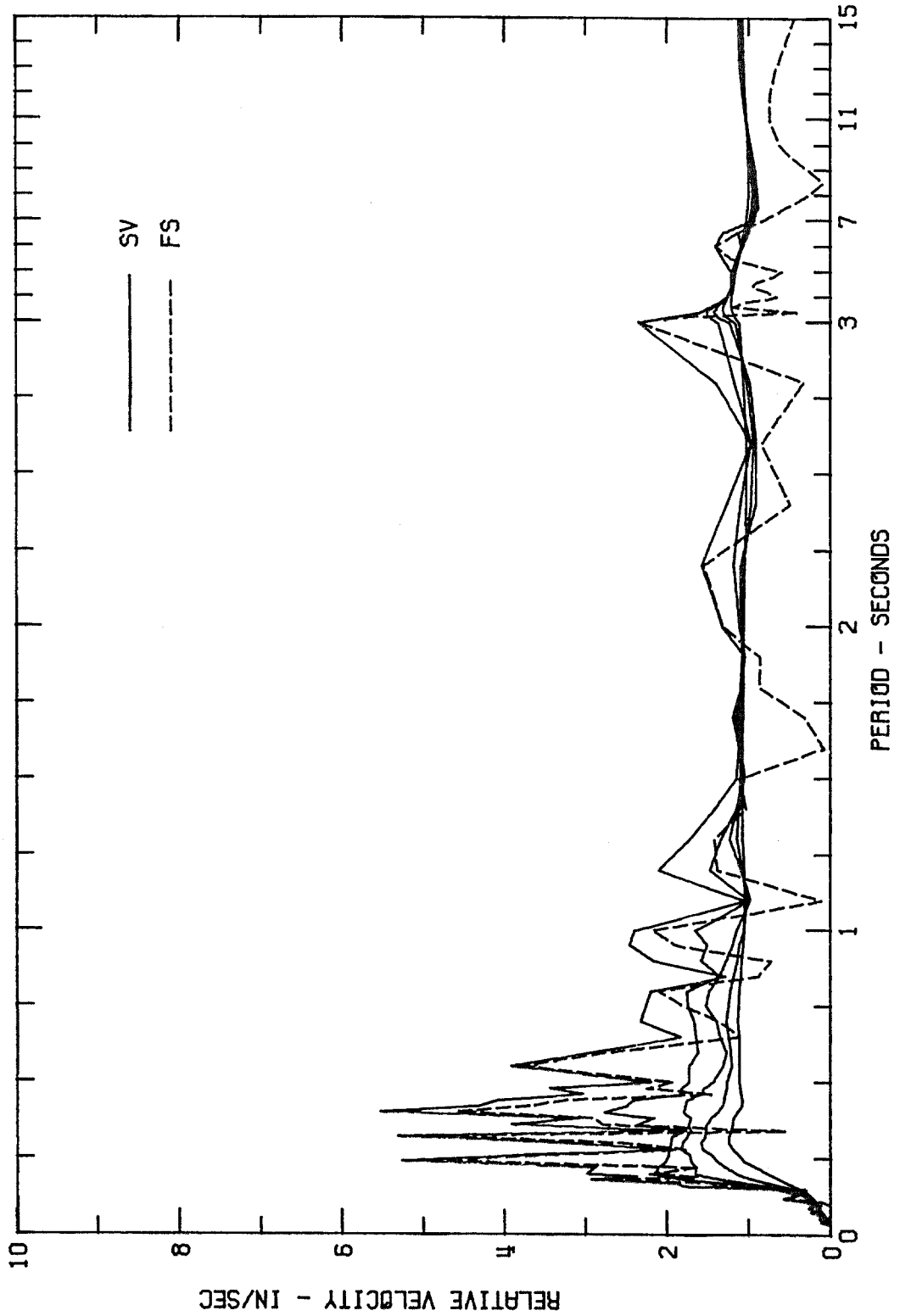
IIIT284 40.001.8 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT			DAMPING = 2 PER CENT			DAMPING = 5 PER CENT			DAMPING = 10 PER CENT			DAMPING = 20 PER CENT		
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD
0.040	159-4	192-6	188-4	122-4	301-4	174-6	859-5	111-4	274-4	172-6	840-5	110-4	270-4	172-6
0.042	134-4	205-6	213-4	118-4	306-4	183-6	982-5	106-4	275-4	188-6	906-5	109-4	281-4	191-6
0.044	639-5	194-6	202-4	102-4	277-4	208-6	128-4	110-4	298-4	211-6	113-4	111-4	301-4	213-6
0.046	359-4	325-6	362-4	157-4	444-4	238-6	173-4	115-4	325-4	238-6	141-4	115-4	325-4	238-6
0.048	790-5	305-6	362-4	135-4	204-4	279-6	212-4	124-4	365-4	271-6	161-4	120-4	355-4	267-6
0.050	141-4	315-6	246-4	128-4	395-4	303-6	232-4	124-4	381-4	304-6	179-4	124-4	383-4	299-6
0.055	139-4	441-6	407-4	149-4	504-4	427-6	242-4	144-4	488-4	406-6	192-4	138-4	464-4	391-6
0.060	440-4	589-6	487-4	167-4	617-4	501-6	249-4	142-4	524-4	504-6	246-4	143-4	528-4	490-6
0.065	462-4	701-6	580-4	169-4	677-4	646-6	349-4	156-4	624-4	626-6	319-4	152-4	605-4	599-6
0.070	717-4	103-5	755-4	215-4	924-4	785-6	423-4	163-4	704-4	760-6	390-4	159-4	683-4	725-6
0.075	811-4	135-5	100-3	246-4	113-3	922-6	521-4	168-4	772-4	903-6	488-4	166-4	757-4	857-6
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RELATIVE VELOCITY RESPONSE SPECTRUM

IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +313.0 SEC.
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

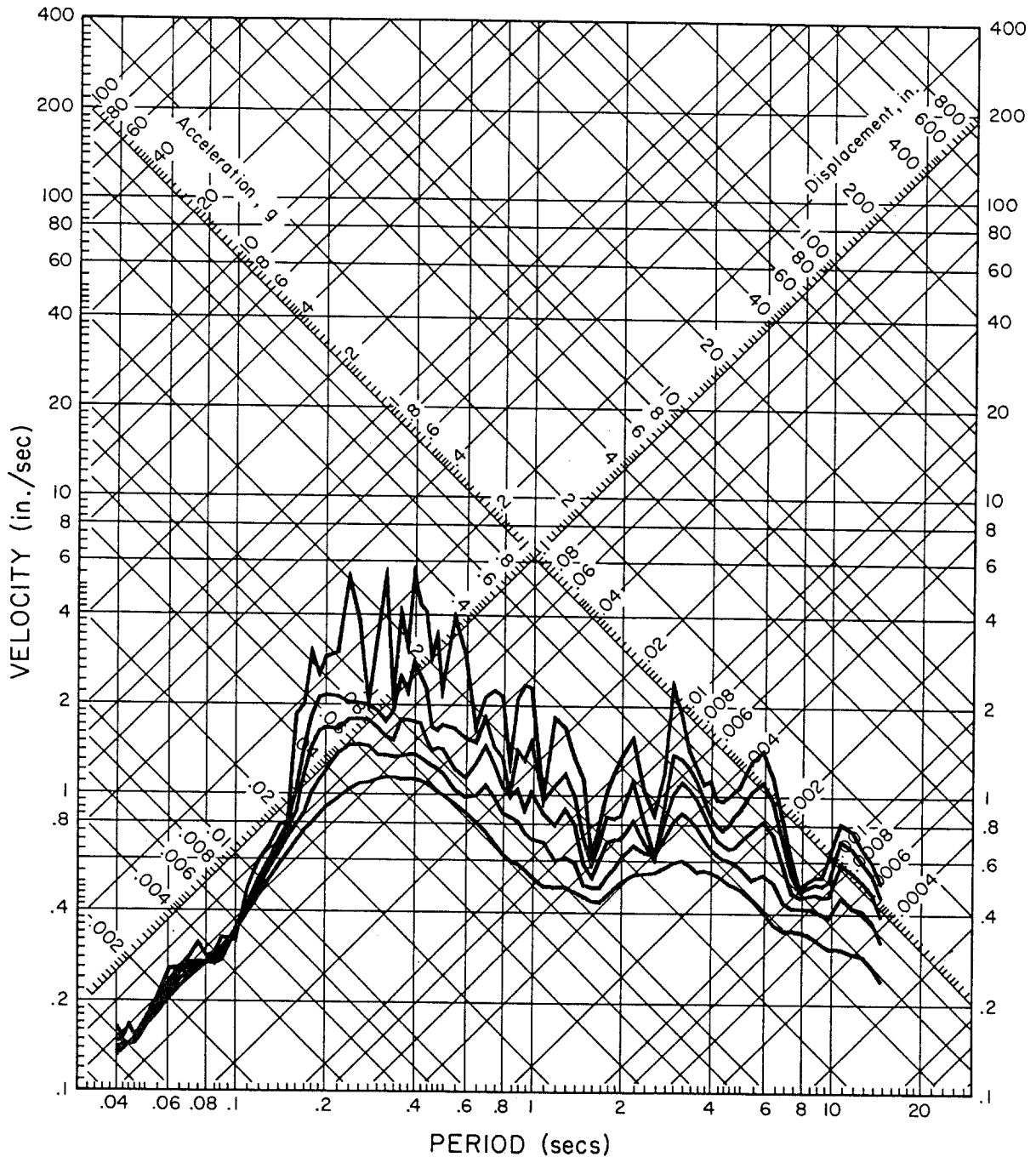


RESPONSE SPECTRUM

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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IMPERIAL VALLEY EQ. AFTERSHOCK MAY 18, 1940 - 2037 PST +313.0 SEC.

IIIT285 40.001.9 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.044	127-3	114-5	126-3	605-4	163-3	987-6	711-4	521-4	140-3	984-6	594-4	519-4	140-3	991-6	501-4	524-4	141-3
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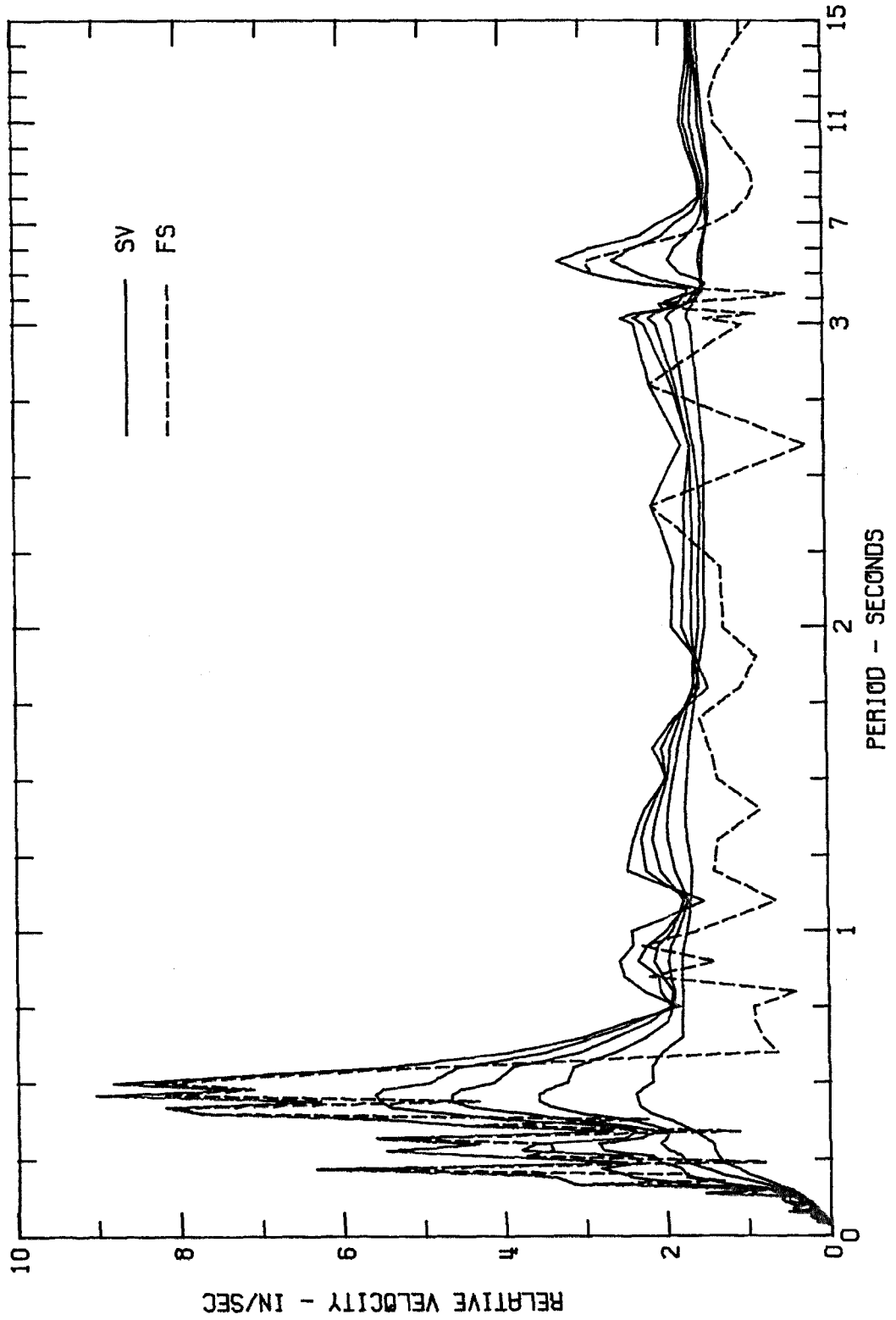
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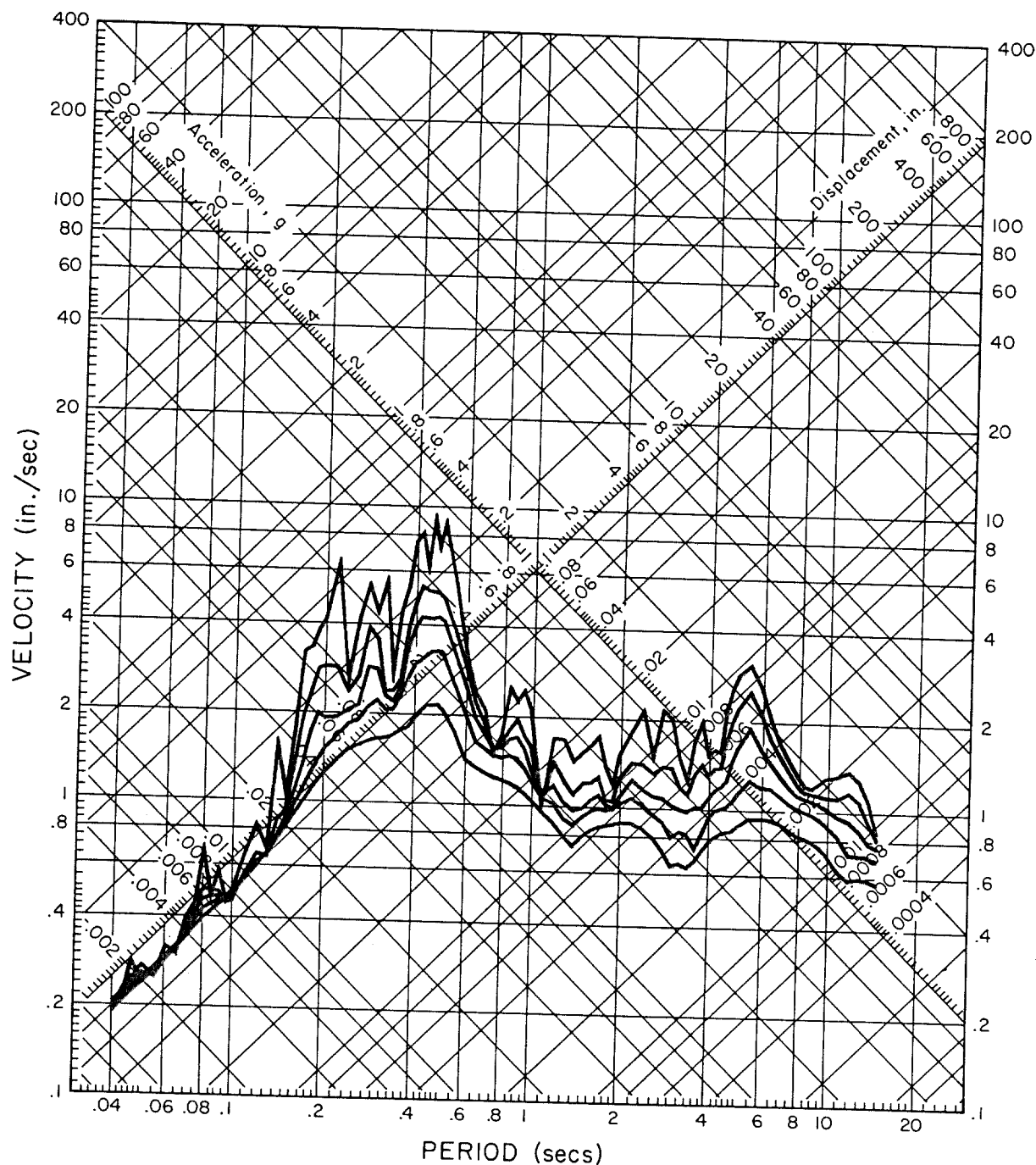


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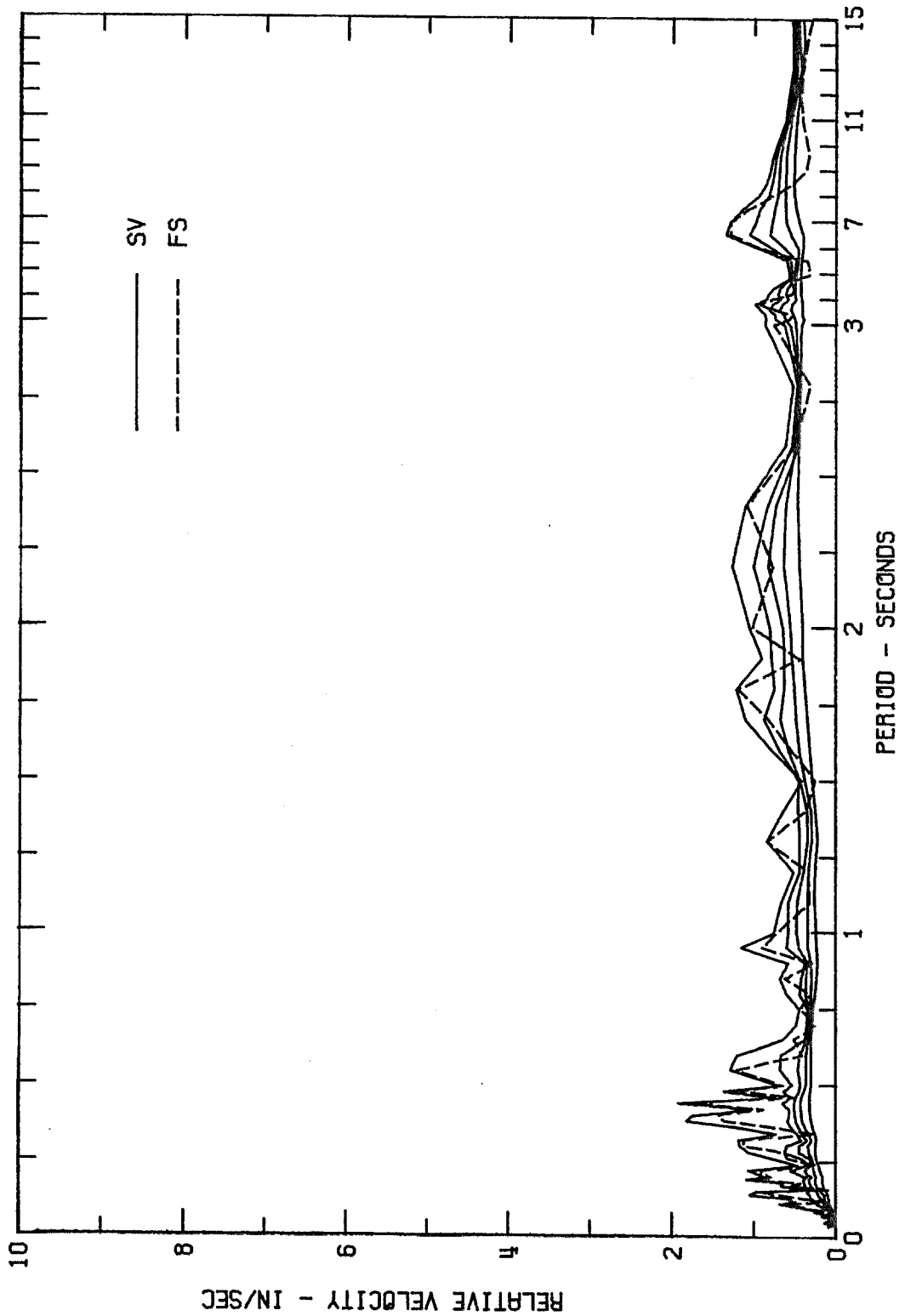
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RELATIVE VELOCITY RESPONSE SPECTRUM

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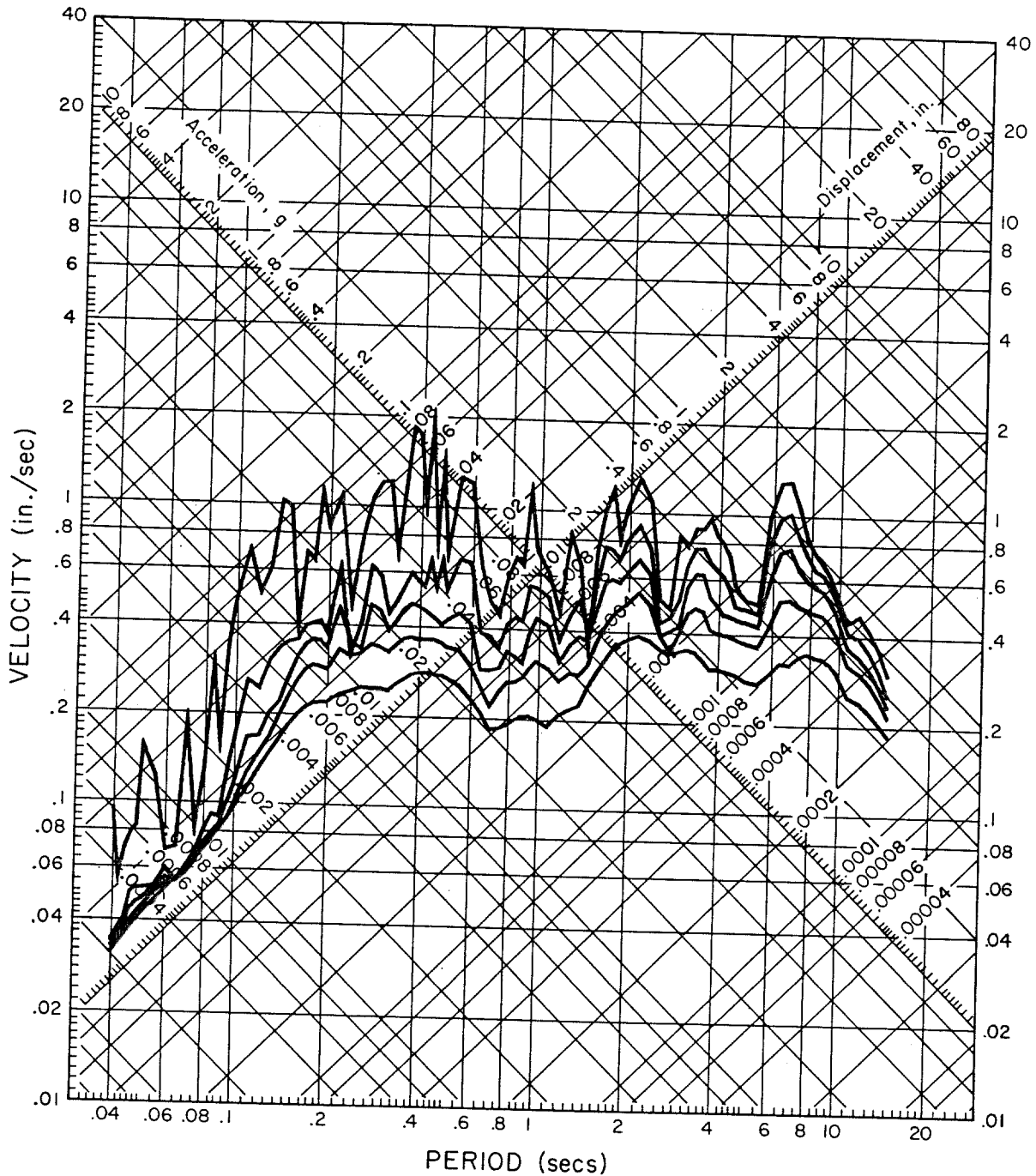


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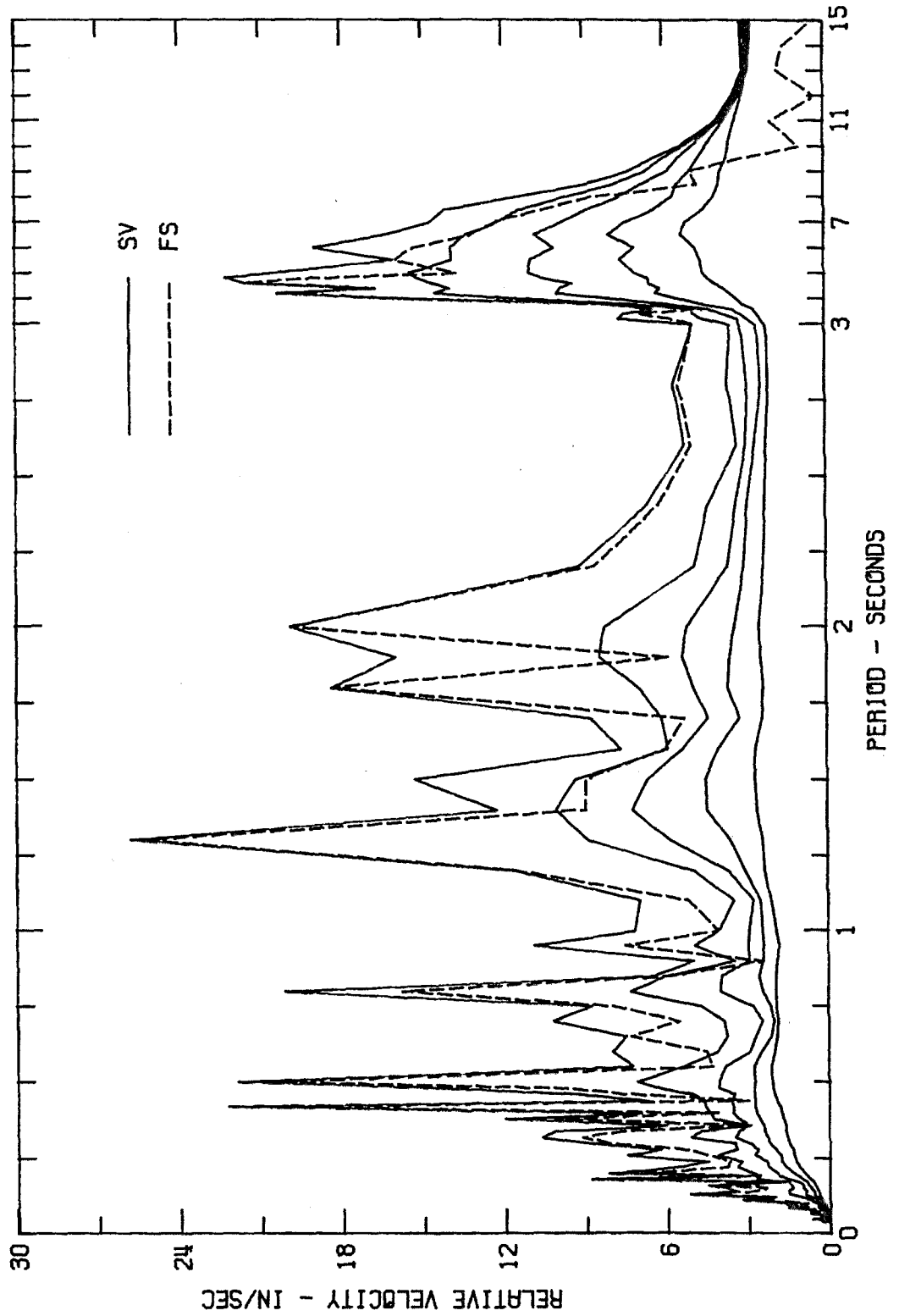
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IIIT285 40.001.9 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



111T286
BORREGO VALLEY EARTHQUAKE OCT 21, 1942 - 0822 PST
42.001.0 EL CENTR0, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH
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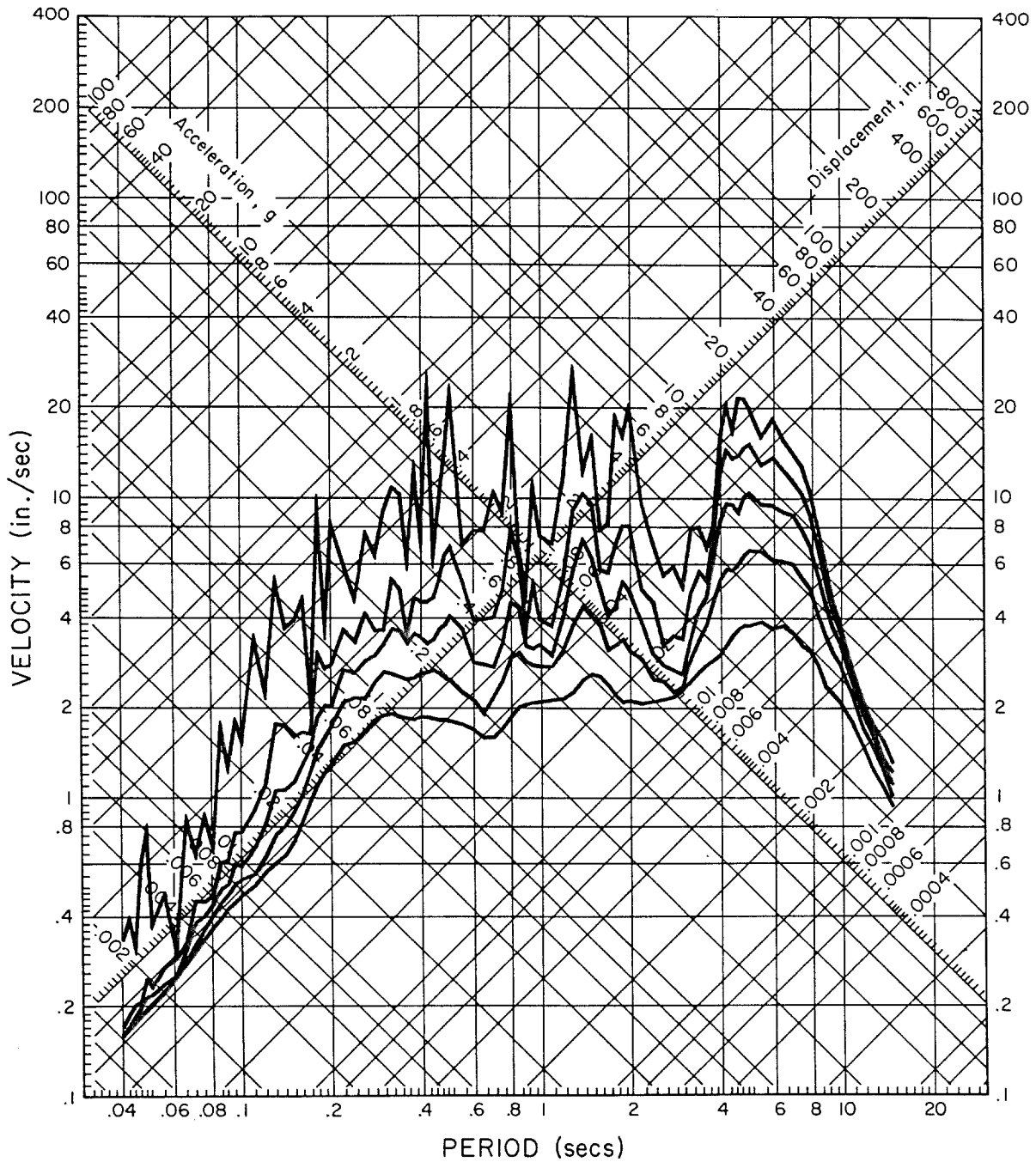


RESPONSE SPECTRUM

BORREGO VALLEY EARTHQUAKE OCT 21, 1942 - 0822 PST

IIIT286 42.001.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



BORRERO VALLEY EARTHQUAKE OCT 21, 1942 - 0922 PST

IIIT286 42.001. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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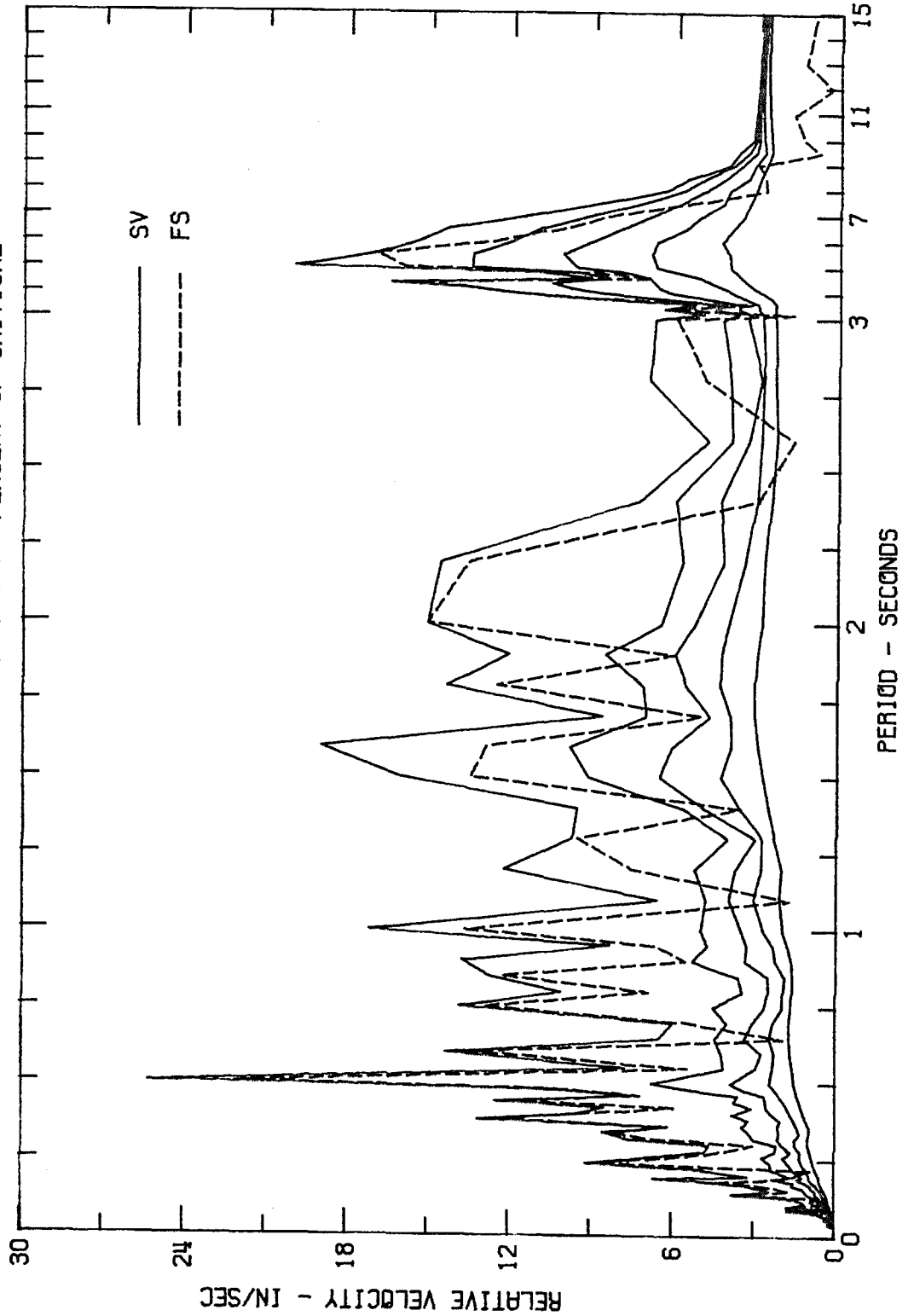
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RELATIVE VELOCITY RESPONSE SPECTRUM

BORRERO VALLEY EARTHQUAKE OCT 21, 1942 - 0822 PST

11117286 42.001.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

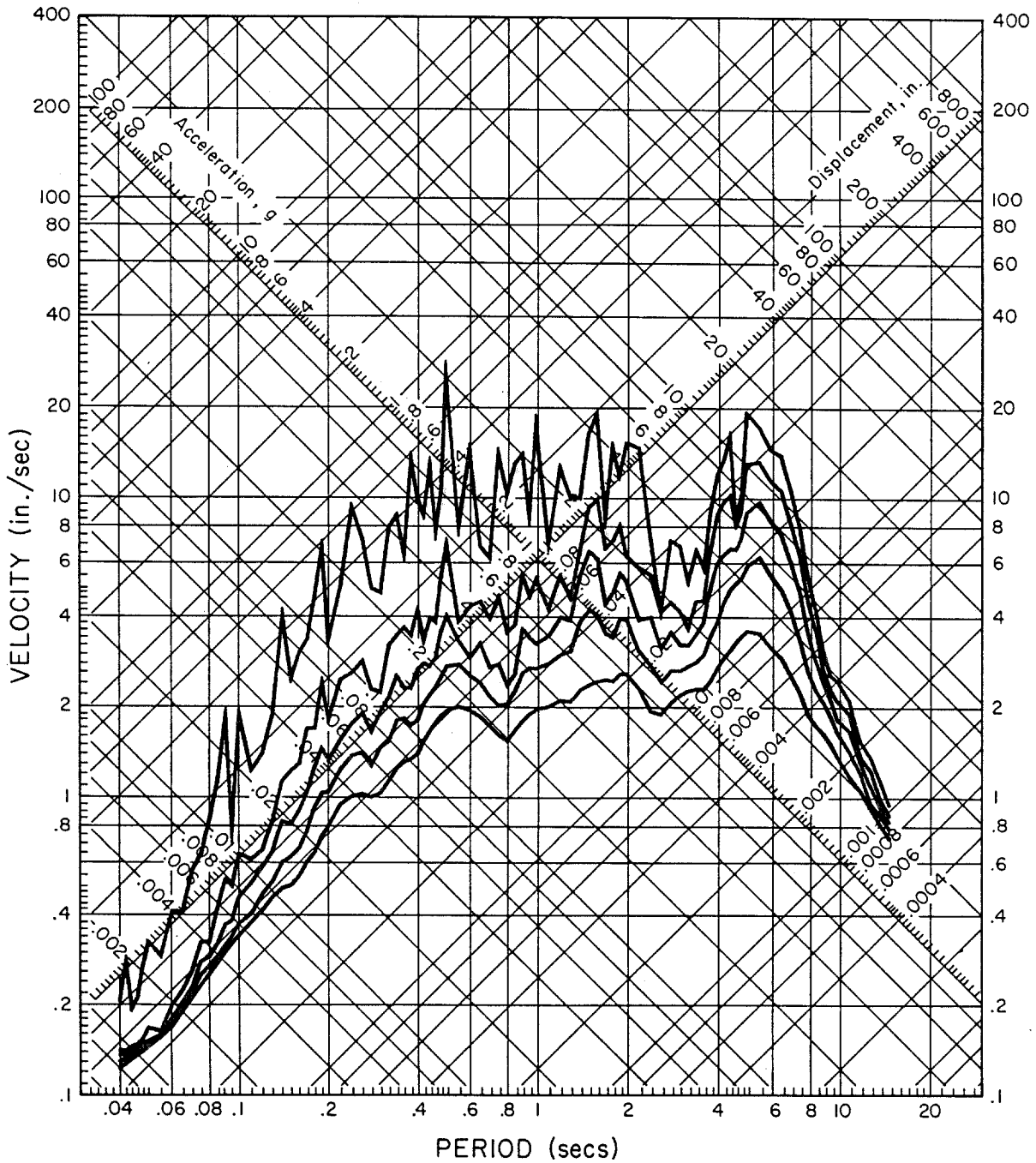


RESPONSE SPECTRUM

BORREGO VALLEY EARTHQUAKE OCT 21, 1942 - 0822 PST

IIIT286 42.001.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

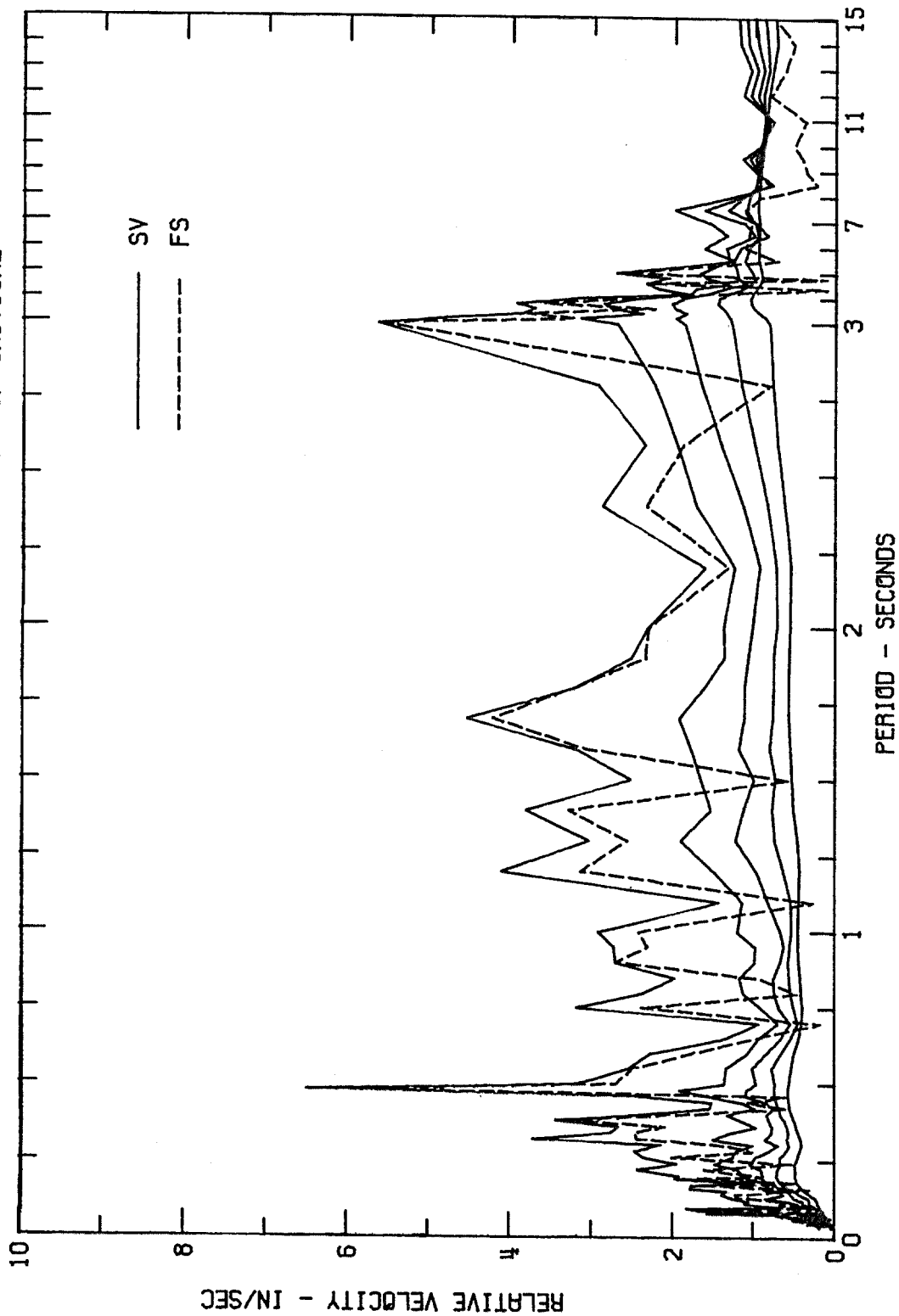


BORRGO VALLEY EARTHQUAKE OCT 21, 1942 - 0922 PST
IIIT286 42.001. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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RELATIVE VELOCITY RESPONSE SPECTRUM
BORRERO VALLEY EARTHQUAKE OCT 21, 1942 - 0822 PST
IIIT286 42.001. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

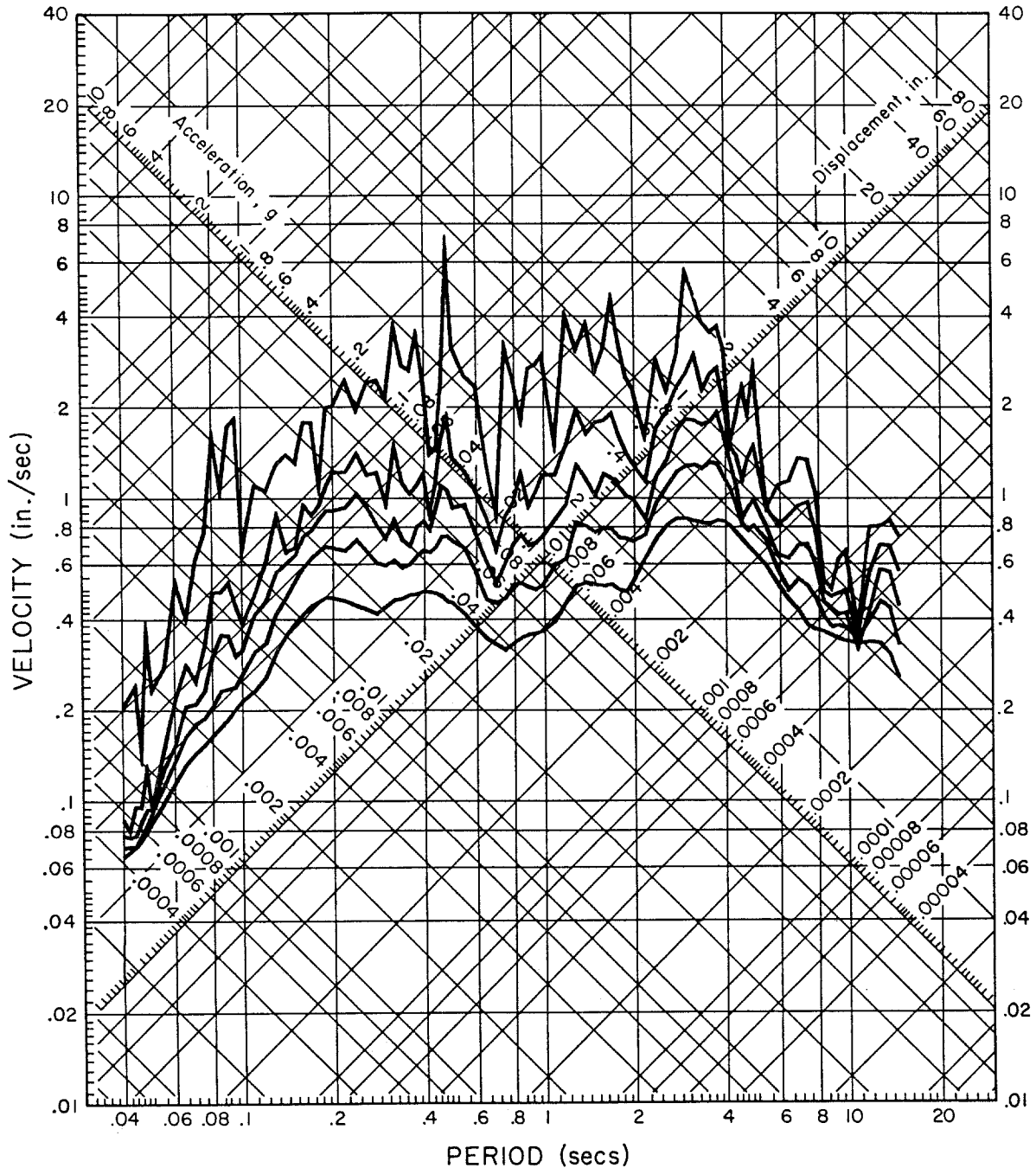


RESPONSE SPECTRUM

BORREGO VALLEY EARTHQUAKE OCT 21, 1942 - 0822 PST

IIIT286 42.001.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



BORRGO VALLEY EARTHQUAKE OCT 21, 1942 - 0922 PST
 IIIIT286 42.001. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

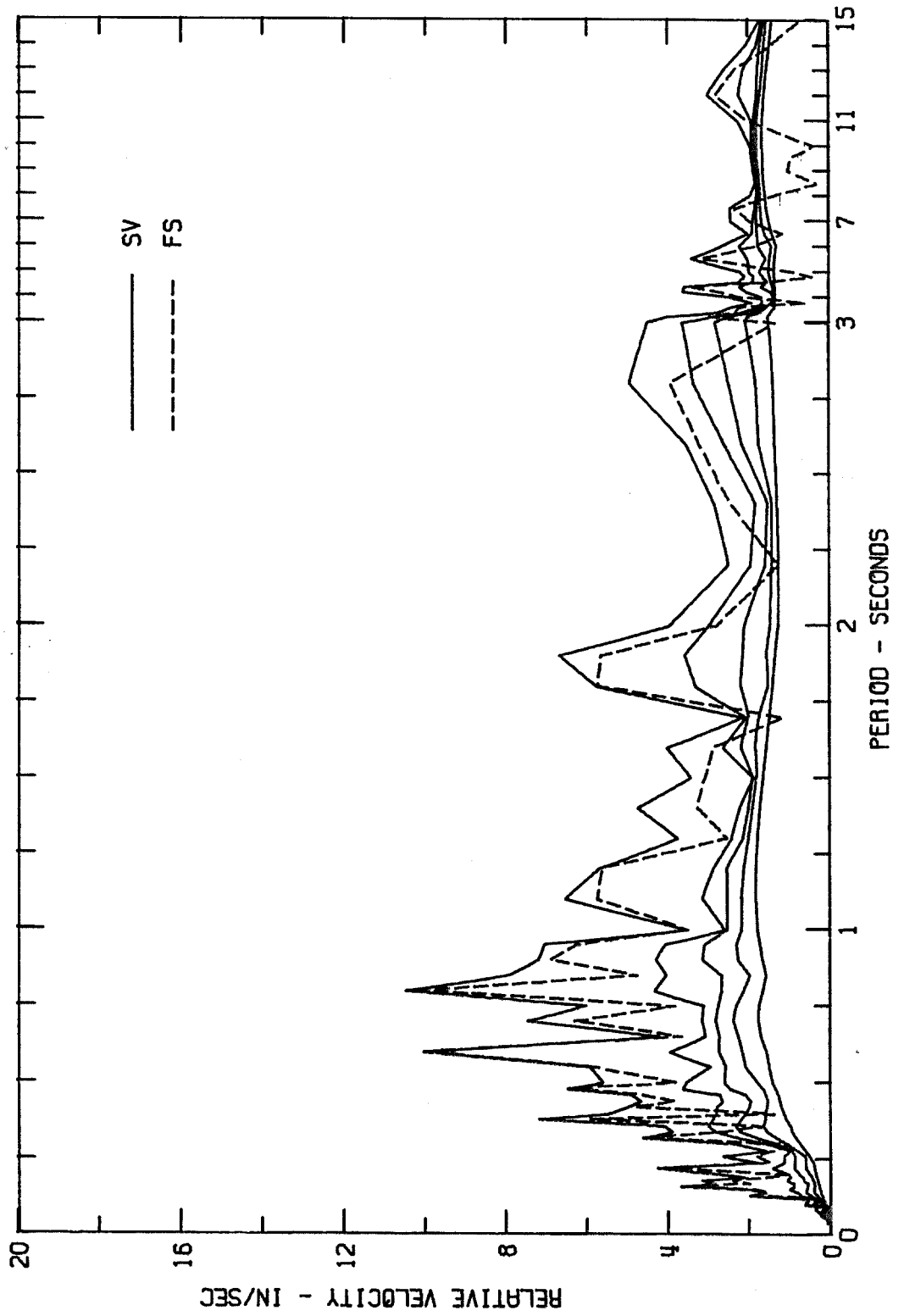
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0.040	189-3	131-5	199-3	841-4	206-3	548-6	487-4	351-4	861-4	488-6	422-4	312-4	766-4	444-6	396-4	284-4	698-4	416-6	320-4	268-4	653-4																												
0.042	183-3	149-5	199-3	868-4	224-3	530-6	550-4	308-4	793-4	504-6	485-4	291-4	754-4	471-6	443-4	276-4	705-4	454-6	349-4	265-4	679-4																												
0.044	869-4	169-5	224-3	897-4	242-3	673-6	734-4	353-4	961-4	536-6	583-4	285-4	765-4	496-6	496-4	263-4	708-4	492-6	372-4	261-4	703-4																												
0.046	103-3	107-5	136-3	521-4	147-3	702-6	786-4	339-4	959-4	633-6	678-4	309-4	864-4	563-6	553-4	274-4	770-4	541-6	407-4	265-4	739-4																												
0.048	320-3	276-5	337-3	122-3	362-3	971-6	109-3	432-4	127-3	719-6	790-4	318-4	942-4	644-6	605-4	290-4	844-4	605-6	440-4	272-4	792-4																												
0.050	224-3	185-5	229-3	759-4	233-3	752-6	786-4	309-4	945-4	752-6	730-4	308-4	945-4	731-6	618-4	303-4	918-4	678-6	463-4	283-4	853-4																												
0.055	169-3	245-5	254-3	831-4	280-3	132-5	996-4	445-4	151-3	112-5	777-4	378-4	128-3	990-6	697-4	333-4	113-3	874-6	522-4	302-4	998-4																												
0.060	516-3	510-5	523-3	145-3	534-3	209-5	185-3	594-4	219-3	148-5	126-3	425-4	155-3	131-5	886-4	377-4	137-3	111-5	612-4	322-4	116-3																												
0.065	413-4	417-5	345-3	100-3	403-3	294-5	202-3	713-4	284-3	214-5	124-3	520-4	206-3	170-5	942-4	420-4	164-3	137-5	729-4	342-4	132-3																												
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0.170	166-2	485-4	177-2	171-3	179-2	238-4	812-3	847-4	882-3	213-4	715-3	759-4	787-3	172-4	601-3	622-4	638-3	120-4	426-3	453-4	443-3																												
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IIIT286 42.001. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
0.75	239-2	384-3	319-2	698-4	321-2	104-3	900-3	189-4	874-3	732-4	687-3	133-4	613-3	561-4	507-3	103-4	470-3	379-4	393-3	784-5	318-3	0.80	465-3	315-3	237-2	504-4	248-2	124-3	112-2	198-4	974-3	905-4	746-3	145-4	711-3	660-4	542-3	519-3	425-4	415-3	723-5	334-3	0.85	932-3	244-3	197-2	346-4	181-2	164-3	117-2	232-4	121-2	103-3	757-3	147-4	763-3	714-4	561-3	102-4	528-3	472-4	427-3	712-5	349-3	0.90	271-2	389-3	271-2	491-4	271-2	135-3	982-3	170-4	943-3	100-3	671-3	127-4	703-3	734-4	573-3	941-5	512-3	512-4	449-3	689-5	357-3	0.95	231-2	423-3	273-2	479-4	279-2	160-3	971-3	182-4	106-2	108-3	628-3	123-4	715-3	758-4	551-3	872-5	501-3	501-4	456-3	657-5	361-3	1.00	243-2	476-3	292-2	487-4	299-2	190-3	971-3	195-4	119-2	119-3	669-3	122-4	751-3	824-4	532-3	857-5	517-3	584-4	456-3	632-5	367-3	1.10	278-3	264-3	142-2	223-4	151-2	210-3	113-2	178-4	120-2	149-3	822-3	126-4	852-3	105-3	547-3	911-5	605-3	692-4	442-3	620-5	395-3	1.20	314-2	777-3	411-2	552-4	312-2	289-3	149-2	205-4	151-2	183-3	963-3	131-4	962-3	121-3	639-3	876-5	634-3	875-4	435-3	662-5	458-3	1.30	257-2	645-3	303-2	390-4	312-2	406-3	191-2	246-4	196-2	183-3	963-3	131-4	962-3	121-3	639-3	876-5	634-3	875-4	435-3	662-5	458-3	1.40	329-2	851-3	381-2	444-4	382-2	365-3	153-2	190-4	163-2	257-3	112-2	134-4	115-2	180-3	779-3	962-5	811-3	118-3	512-3	665-5	530-3	1.50	561-3	629-3	252-2	286-4	263-2	427-3	166-2	194-4	178-2	244-3	997-3	111-4	102-2	184-3	734-3	856-5	774-3	124-3	534-3	612-5	520-3	1.60	307-2	806-3	319-2	322-4	316-2	462-3	178-2	184-4	181-2	308-3	118-2	123-4	121-2	204-3	805-3	832-5	802-3	131-3	552-3	571-5	515-3	1.70	422-2	124-2	454-2	441-4	461-2	518-3	193-2	183-4	191-2	316-3	111-2	112-4	116-2	215-3	768-3	778-5	794-3	141-3	570-3	550-5	522-3	1.80	322-2	923-3	323-2	291-4	322-2	459-3	162-2	145-4	160-2	313-3	111-2	994-5	109-2	212-3	759-3	687-5	743-3	143-3	576-3	499-5	500-3	1.90	234-2	761-3	251-2	185-4	251-2	427-3	136-2	121-4	141-2	308-3	106-2	879-5	102-2	223-3	750-3	644-5	737-3	149-3	567-3	437-5	494-3	2.00	230-2	735-3	231-2	188-4	231-2	413-3	137-2	105-4	129-2	318-3	101-2	818-5	999-3	999-3	724-3	170-3	554-3	445-5	534-3	2.20	131-2	559-3	160-2	118-4	155-2	399-3	123-2	844-5	114-2	299-3	921-3	634-5	854-3	729-3	566-5	760-3	223-3	549-3	493-5	638-3	2.40	234-2	110-2	288-2	196-4	289-2	657-3	172-2	116-4	172-2	454-3	113-2	810-5	119-2	371-3	831-3	670-5	972-3	283-3	628-3	535-5	742-3	2.60	187-2	941-3	235-2	142-4	227-2	807-3	196-2	122-4	195-2	558-3	141-2	848-5	134-2	456-3	995-3	704-5	110-2	339-3	714-3	554-5	819-3	2.80	792-3	134-2	295-2	175-4	302-2	104-2	224-2	136-4	234-2	748-3	166-2	981-5	167-2	545-3	128-2	729-5	122-2	382-3	776-3	547-5	859-3	3.00	564-2	269-2	565-2	305-4	564-2	124-2	271-2	141-4	261-2	870-3	187-2	994-5	182-2	611-3	128-2	707-5	128-2	410-3	813-3	100-2	419-5	827-3	3.20	320-2	238-2	480-2	238-4	468-2	153-2	316-2	153-4	300-2	922-3	198-2	927-5	181-2	658-3	130-2	674-5	129-2	428-3	854-3	477-5	841-3	3.40	384-2	208-2	384-2	184-4	384-2	124-2	238-2	109-4	225-2	951-3	185-2	845-5	175-2	680-3	134-2	617-5	125-2	449-3	937-3	435-5	831-3	3.60	224-2	204-2	371-2	161-4	357-2	148-2	278-2	117-4	259-2	103-2	199-2	179-2	756-3	139-2	613-5	132-2	473-3	100-2	419-5	827-3	3.80	362-2	226-2	394-2	160-4	375-2	164-2	287-2	116-4	271-2	116-2	203-2	831-5	192-2	785-3	146-2	572-5	129-2	511-3	104-2	409-5	845-3	4.00	251-2	199-2	319-2	127-4	313-2	132-2	241-2	844-5	207-2	102-2	187-2	656-5	160-2	749-3	144-2	495-5	117-2	534-3	105-2	389-5	840-3	4.20	145-2	100-2	184-2	584-5	150-2	995-3	178-2	577-5	148-2	883-3	157-2	515-5	132-2	720-3	130-2	430-5	107-2	541-3	102-2	360-5	810-3	4.40	105-3	132-2	221-2	699-5	189-2	966-3	173-2	511-5	138-2	765-3	138-2	407-5	109-2	659-3	113-2	358-5	941-3	538-3	978-3	330-5	769-3	4.60	235-2	172-2	235-2	833-5	235-2	843-3	131-2	407-5	115-2	628-3	109-2	306-5	858-3	600-3	104-2	299-5	819-3	931-3	302-5	730-3	4.80	102-3	144-2	206-2	642-5	189-2	104-2	160-2	465-5	137-2	714-3	121-2	315-5	935-3	600-3	988-3	275-5	785-3	533-3	900-3	279-5	698-3	5.00	272-2	216-2	272-2	886-5	272-2	118-2	168-2	487-5	149-2	791-3	121-2	326-5	994-3	649-3	102-2	274-5	816-3	917-3	258-5	670-3	5.20	710-3	812-3	124-2	274-5	928-3	818-3	131-2	277-5	935-3	710-3	126-2	242-5	811-3	640-3	112-2	224-5	732-3	950-3	212-5	597-3	6.00	111-2	106-2	163-2	301-5	111-2	775-3	135-2	220-5	812-3	623-3	117-2	179-5	653-3	554-3	106-2	164-5	580-3	497-3	950-3	172-5	520-3	6.50	107-2	118-2	134-2	287-5	114-2	912-3	994-3	221-5	882-3	657-3	832-3	160-5	635-3	515-3	950-3	134-5	498-3	481-3	940-3	145-5	465-3	7.00	104-2	152-2	156-2	317-5	136-2	105-2	112-2	221-5	950-3	782-3	986-3	164-5	702-3	605-3	998-3	132-5	543-3	478-3	948-3	126-5	429-3	7.50	112-2	160-2	200-2	291-5	134-2	116-2	163-2	211-5	973-3	847-3	133-2	156-5	709-3	615-3	110-2	118-5	515-3	458-3	962-3	107-5	384-3	8.00	922-3	132-2	129-2	211-5	104-2	983-3	116-2	157-5	772-3	766-3	133-2	124-5	601-3	595-3	106-2	101-5	468-3	473-3	957-3	913-6	371-3	8.50	235-3	729-3	765-3	103-5	539-3	668-3	815-3	961-6	494-3	618-3	932-3	936-6	457-3	553-3	493-3	939-3	862-6	365-3	9.00	361-3	725-3	994-3	915-6	506-3	683-3	969-3	870-6	476-3	625-3	959-3	825-6	436-3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RELATIVE VELOCITY RESPONSE SPECTRUM
IMPERIAL VALLEY EARTHQUAKE JAN 23, 1951 - 2317 PST
1111287 51.002.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

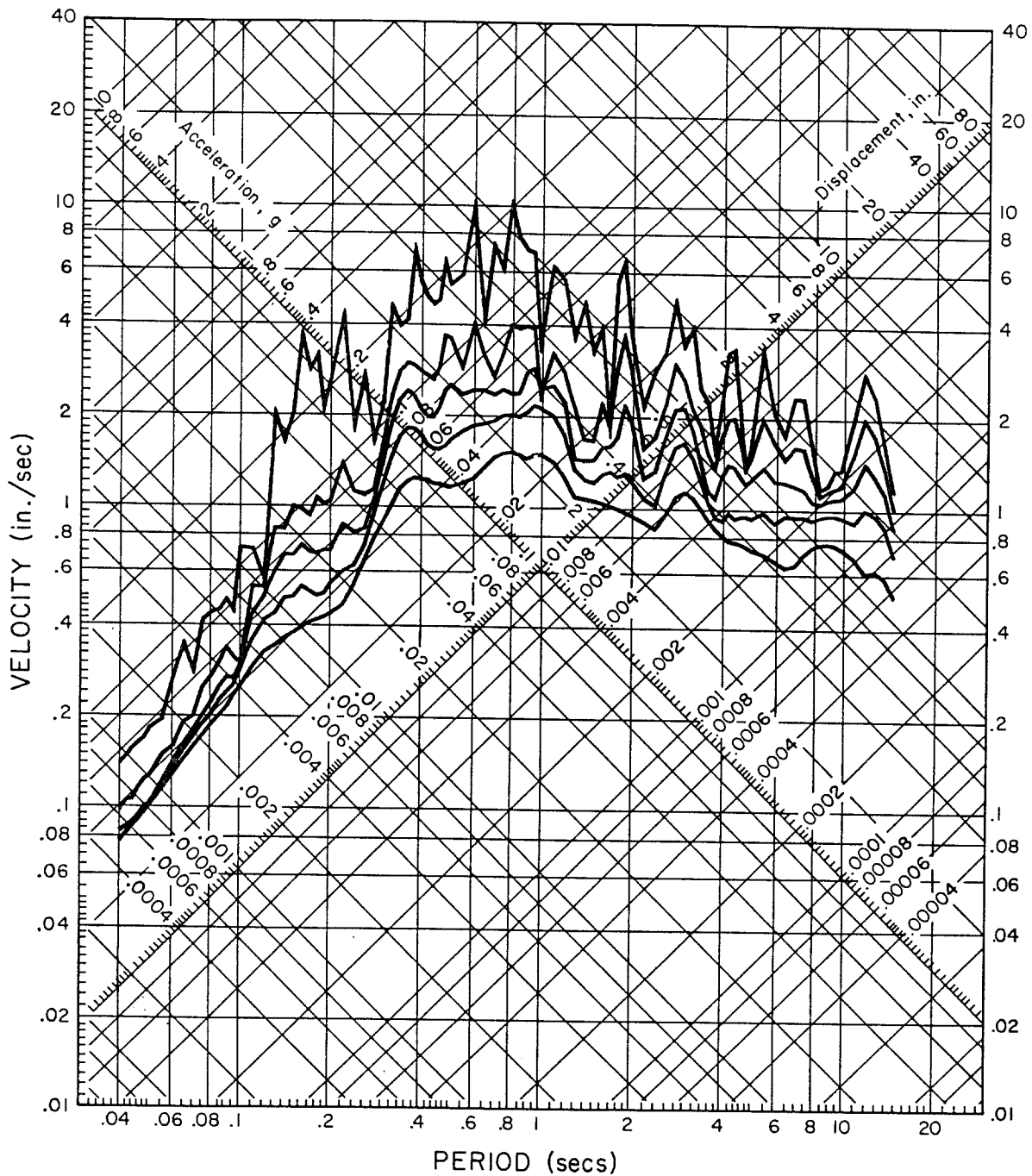


RESPONSE SPECTRUM

IMPERIAL VALLEY EARTHQUAKE JAN 23, 1951 - 2317 PST

111T287 51.002.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

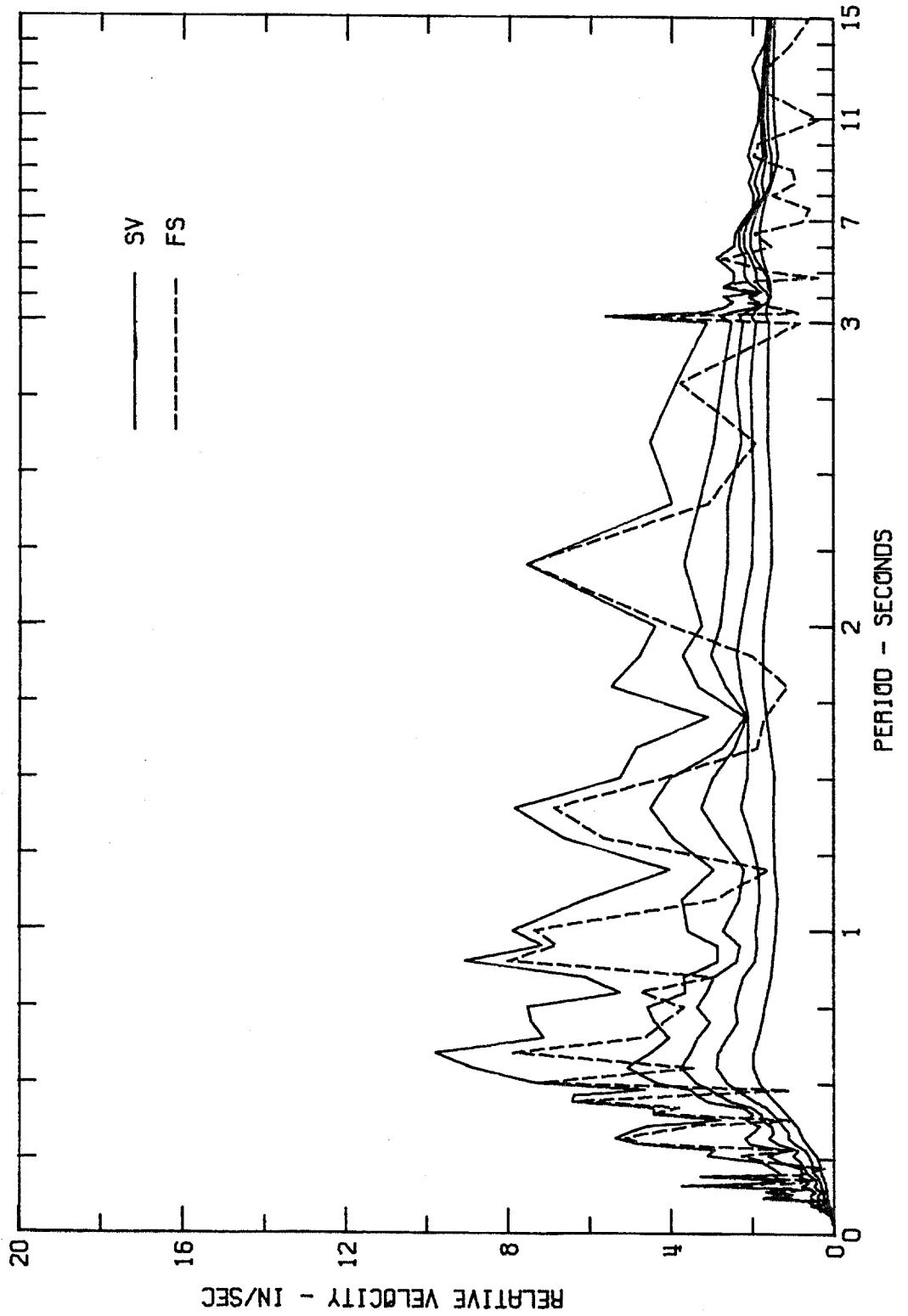


PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
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0.042	687-4	981-6	811-4	565-4	146-3	702-6	689-4	406-4	105-3	574-6	623-4	334-4	859-4	548-6	527-4	318-4	821-4
0.044	741-4	109-5	859-4	579-4	156-3	740-6	711-4	391-4	105-3	623-6	635-4	325-4	850-4	606-6	534-4	321-4	866-4
0.046	708-4	119-5	899-4	576-4	162-3	848-6	754-4	410-4	115-3	686-6	677-4	331-4	937-4	669-6	569-4	324-4	913-4
0.048	703-4	129-5	985-4	574-4	169-3	941-6	777-4	417-4	123-3	765-6	702-4	339-4	100-3	736-6	594-4	327-4	964-4
0.050	816-4	145-5	105-3	593-4	182-3	100-5	825-4	413-4	126-3	814-6	724-4	334-4	102-3	813-6	608-4	332-4	102-3
0.055	649-4	170-5	111-3	576-4	194-3	129-5	937-4	439-4	148-3	105-5	783-4	356-4	120-3	103-5	660-4	351-4	118-3
0.060	141-3	258-5	203-3	734-4	270-3	152-5	104-3	434-4	159-3	136-5	883-4	388-4	142-3	130-5	726-4	371-4	136-3
0.065	271-3	360-5	279-3	871-4	348-3	198-5	115-3	481-4	191-3	167-5	980-4	406-4	162-3	159-5	756-4	388-4	154-3
0.070	113-3	314-5	215-3	656-4	282-3	222-5	125-3	463-4	200-3	201-5	107-3	424-4	181-3	190-5	835-4	401-4	171-3
0.075	184-3	500-5	300-3	910-4	419-3	298-5	139-3	544-4	250-3	241-5	113-3	439-4	202-3	225-5	884-4	410-4	188-3
0.080	248-3	562-5	321-3	898-4	441-3	347-5	155-3	555-4	272-3	284-5	124-3	452-4	223-3	260-5	927-4	420-4	204-3
0.085	164-3	610-5	385-3	864-4	451-3	409-5	166-3	579-4	302-3	338-5	136-3	479-4	250-3	306-5	100-3	433-4	226-3
0.090	120-3	700-5	361-3	884-4	488-3	484-5	203-3	609-4	338-3	386-5	146-3	492-4	270-3	344-5	109-3	440-4	240-3
0.095	308-3	675-5	312-3	765-4	446-3	475-5	186-3	540-4	314-3	404-5	154-3	458-4	267-3	384-5	117-3	438-4	254-3
0.100	586-3	115-4	641-3	118-3	728-3	474-5	192-3	486-4	297-3	471-5	161-3	475-4	296-3	454-5	129-3	465-4	285-3
0.110	121-3	126-4	587-3	106-3	721-3	948-5	366-3	798-4	541-3	771-5	265-3	657-4	440-3	636-5	193-3	540-4	363-3
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0.130	153-2	422-4	200-2	255-3	204-2	176-4	725-3	106-3	852-3	125-4	467-3	761-4	607-3	909-5	326-3	566-4	439-3
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0.150	182-2	491-4	202-2	223-3	205-2	240-4	101-2	108-3	100-2	164-4	597-3	753-4	746-3	137-4	406-3	553-4	501-3
0.160	354-2	951-4	370-2	380-3	373-2	251-4	917-3	100-3	985-3	190-4							

THE UNITS USED ARE SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT				
	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
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0.80	100-1	131-2	105-1	209-3	102-1	517-3	434-2	828-4	406-2	305-3	266-2	492-4	240-2	260-3	213-2	427-4	204-2	195-3	164-2	344-4	153-2
0.85	475-2	106-2	792-2	151-3	790-2	534-3	405-2	757-4	395-2	326-3	266-2	464-4	241-2	272-3	191-2	396-4	201-2	204-3	166-2	322-4	151-2
0.90	690-2	103-2	718-2	131-3	725-2	577-3	431-2	729-4	403-2	407-3	314-2	515-4	284-2	298-3	227-2	383-4	208-2	209-3	166-2	297-4	146-2
0.95	624-2	107-2	705-2	121-3	709-2	578-3	406-2	719-4	396-2	442-3	308-2	503-4	292-2	333-3	230-2	386-4	220-2	227-3	173-2	280-4	150-2
1.00	350-2	557-3	349-2	570-4	350-2	375-3	259-2	384-4	235-2	396-3	253-2	408-4	248-2	342-3	217-2	358-4	215-2	240-3	178-2	275-4	151-2
1.10	575-2	111-2	654-2	943-4	637-2	575-3	314-2	486-4	328-2	449-3	252-2	382-4	256-2	355-3	217-2	308-4	202-2	250-3	182-2	239-4	143-2
1.20	561-2	109-2	571-2	780-4	575-2	541-3	286-2	385-4	283-2	427-3	254-2	306-4	223-2	335-3	210-2	245-4	175-2	242-3	181-2	196-4	127-2
1.30	252-2	167-3	375-2	464-4	370-2	445-3	240-2	269-4	215-2	303-3	213-2	184-4	146-2	278-3	199-2	174-4	134-2	227-3	177-2	156-4	109-2
1.40	327-2	107-2	474-2	558-4	480-2	379-3	221-2	198-4	170-2	323-3	198-2	169-4	144-2	278-3	188-2	149-4	125-2	240-3	170-2	138-4	108-2
1.50	307-2	795-3	343-2	361-4	333-2	402-3	186-2	183-4	168-2	347-3	188-2	159-4	145-2	292-3	179-2	137-4	122-2	254-3	162-2	128-4	106-2
1.60	285-2	101-2	402-2	406-4	399-2	568-3	262-2	226-4	223-2	407-3	182-2	163-4	160-2	331-3	183-2	138-4	130-2	267-3	154-2	122-4	104-2
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RELATIVE VELOCITY RESPONSE SPECTRUM
IMPERIAL VALLEY EARTHQUAKE JAN 23, 1951 - 2317 PST
IIIT287 51.002.0 EL CENTR0, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

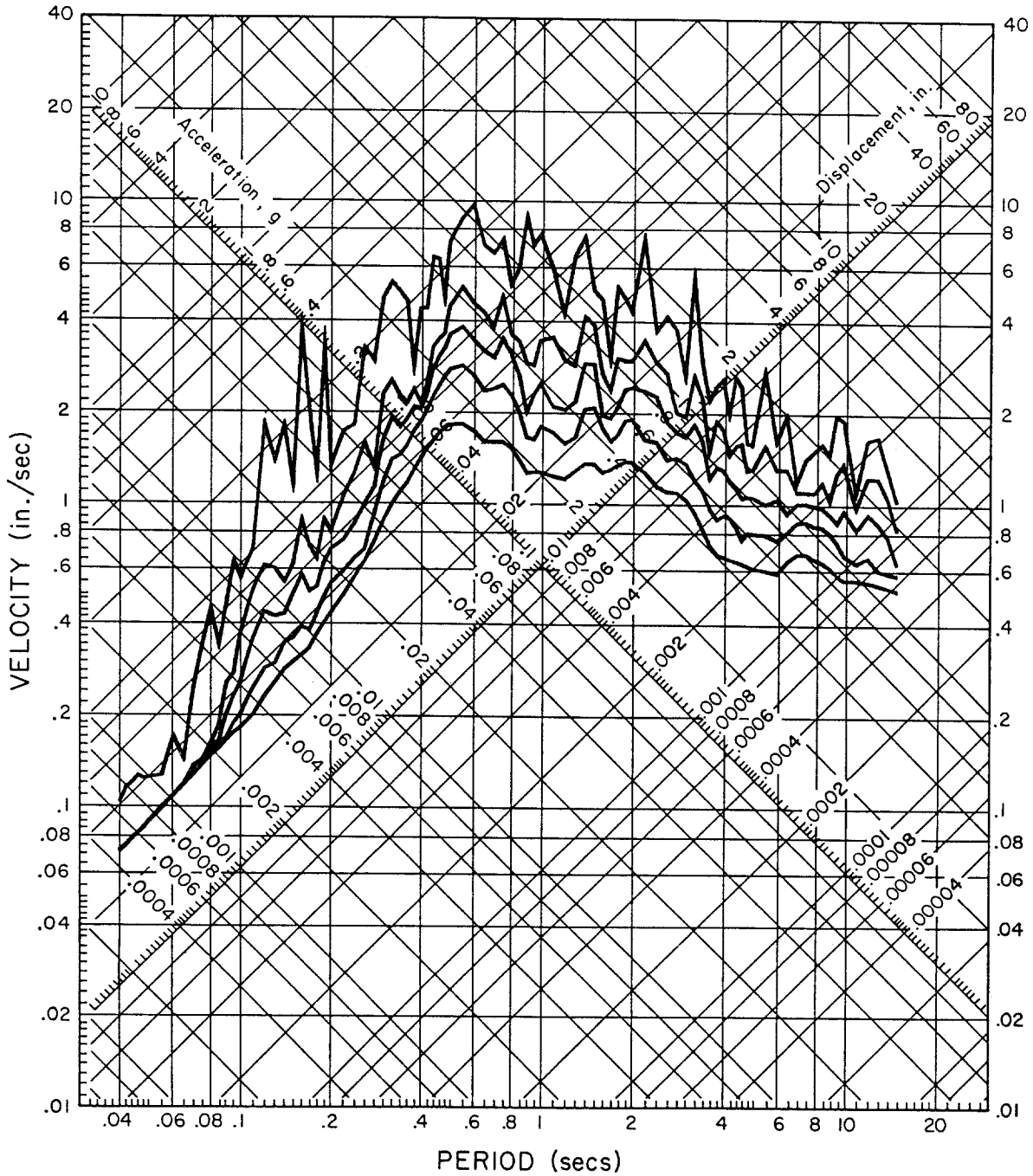


RESPONSE SPECTRUM

IMPERIAL VALLEY EARTHQUAKE JAN 23, 1951 - 2317 PST

IIIT287 51.002.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IMPERIAL VALLEY EARTHQUAKE JAN 23, 1951 - 2317 PST
IIIT287 51.002. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

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IIIT287 51.002. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

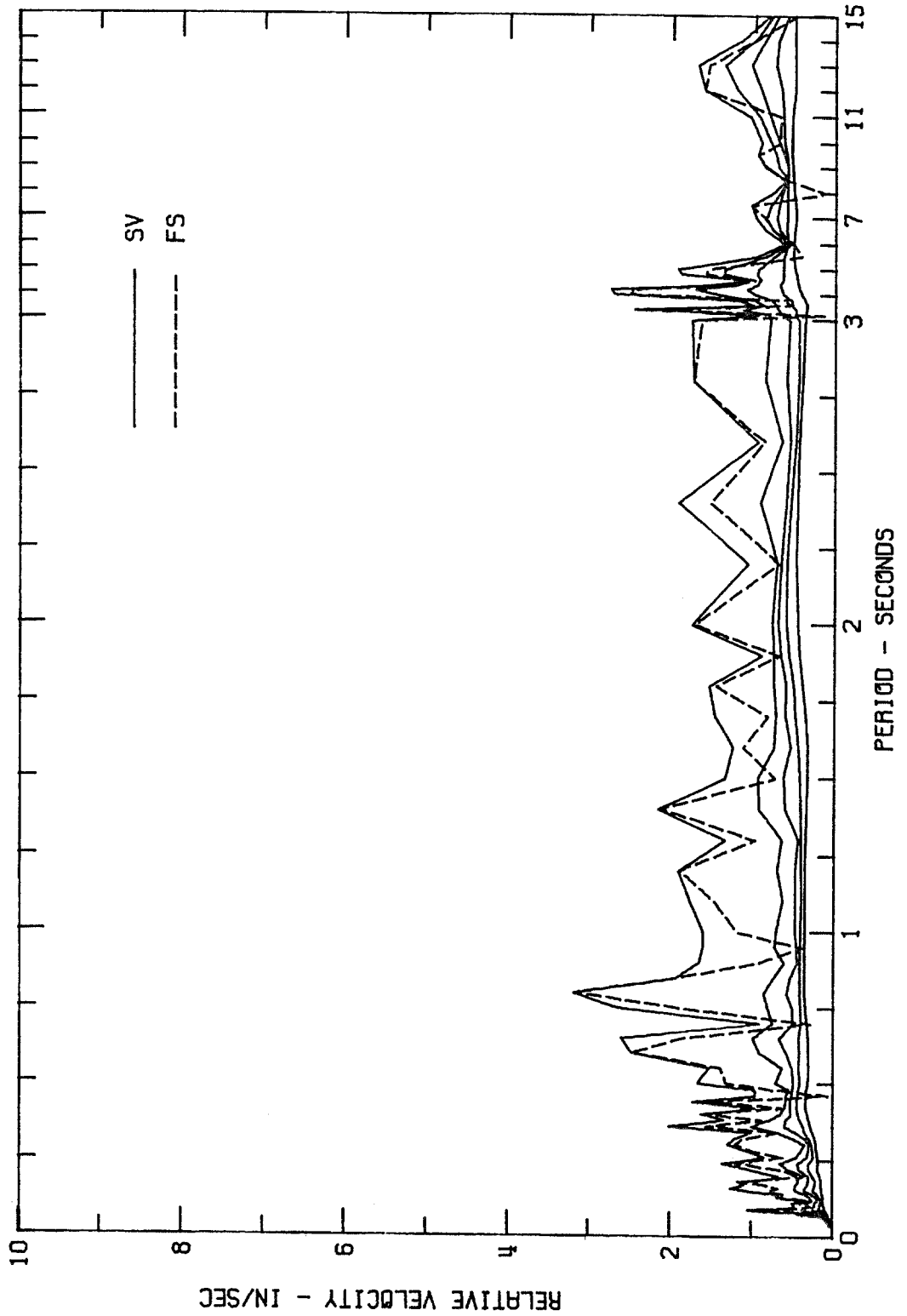
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RELATIVE VELOCITY RESPONSE SPECTRUM

IMPERIAL VALLEY EARTHQUAKE JAN 23, 1951 - 2317 PST

11117287 51.002.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

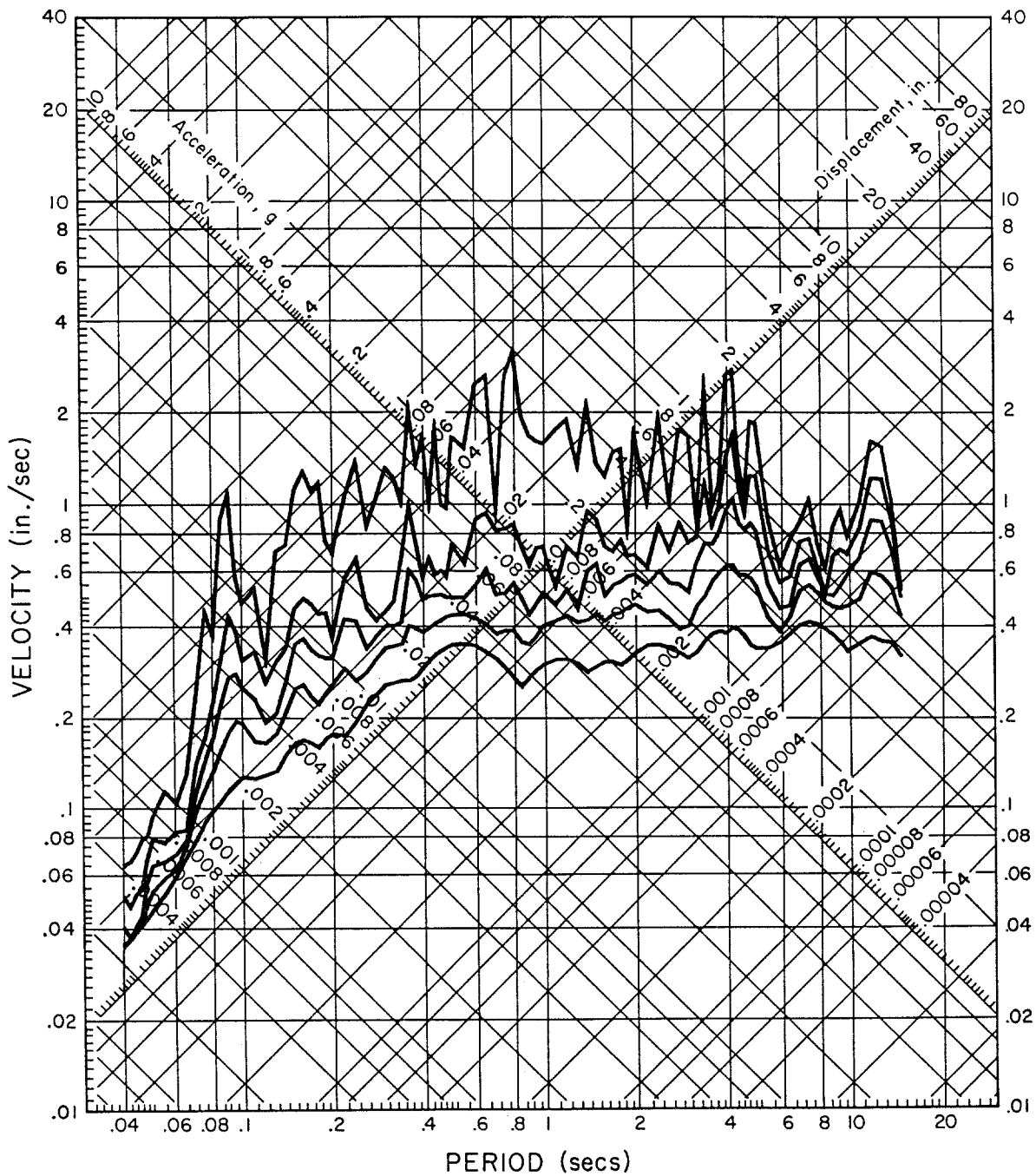


RESPONSE SPECTRUM

IMPERIAL VALLEY EARTHQUAKE JAN 23, 1951 - 2317 PST

IIIT287 51.002.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IMPERIAL VALLEY EARTHQUAKE JAN 23, 1951 - 2317 PST
51.002. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FCR SD AND G FCR SA

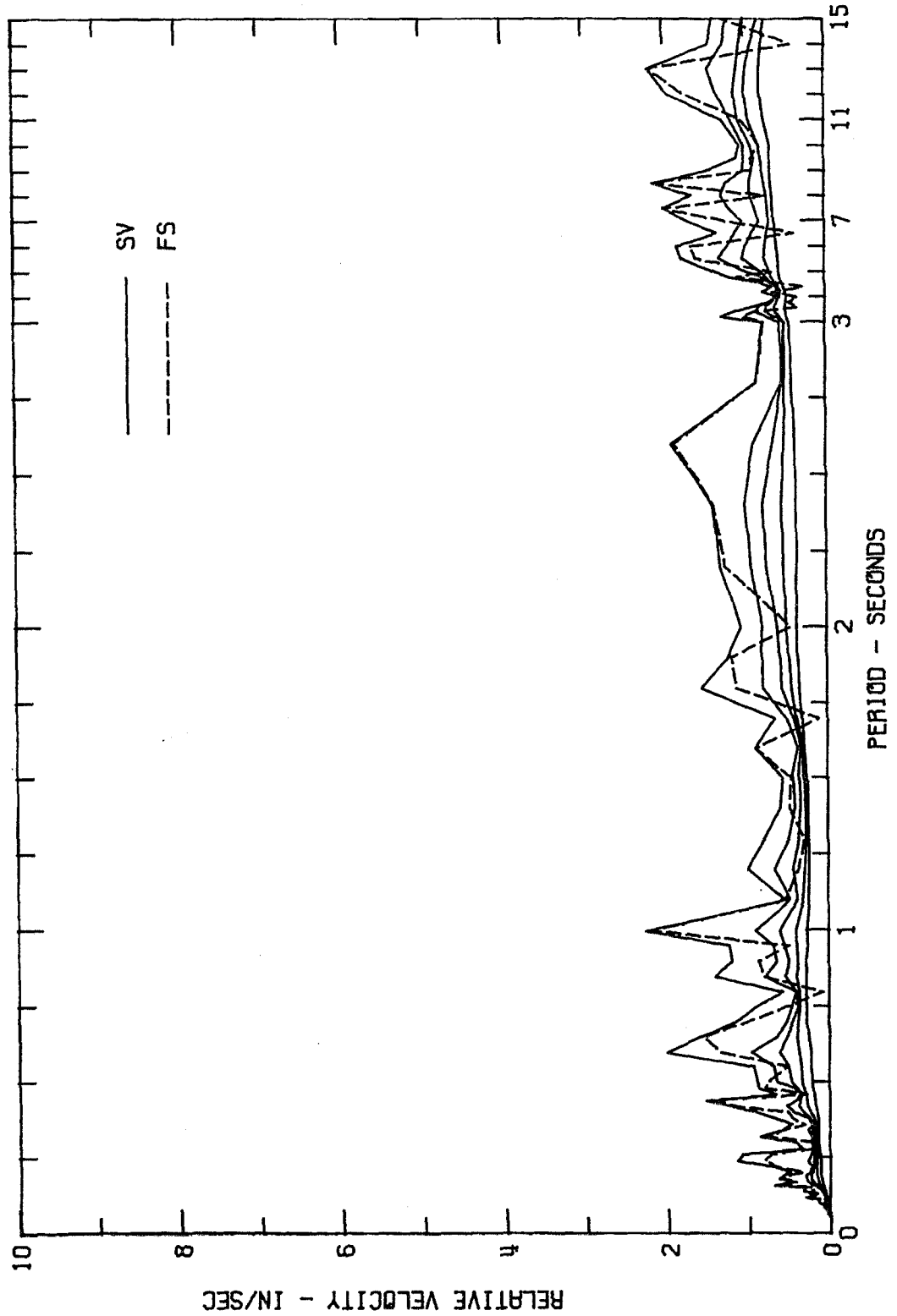
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0.040	347-4	409-6	420-4	261-4	643-4	322-6	335-4	205-4	507-4	256-6	303-4	165-4	402-4	225-6	266-4	144-4	354-4	221-6	209-4	143-4	347-4	409-6	420-4	261-4	643-4	322-6	335-4	205-4	507-4	256-6	303-4	165-4	402-4	225-6	266-4	144-4	354-4	221-6	209-4	143-4	347-4								
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IIIT287 51.002. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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10.00	697-3	125-2	913-3	128-5	913-3	110-2	804-3	113-5	694-3	944-3	702-3	974-6	593-3	746-3	641-3	793-6	468-3	530-3	559-3	713-6	333-3					
11.00	686-3	180-2	105-2	152-5	103-2	147-2	944-3																			

RELATIVE VELOCITY RESPONSE SPECTRUM
IMPERIAL VALLEY EARTHQUAKE JUN 13, 1953 - 2017 PST
11117288 53.001.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

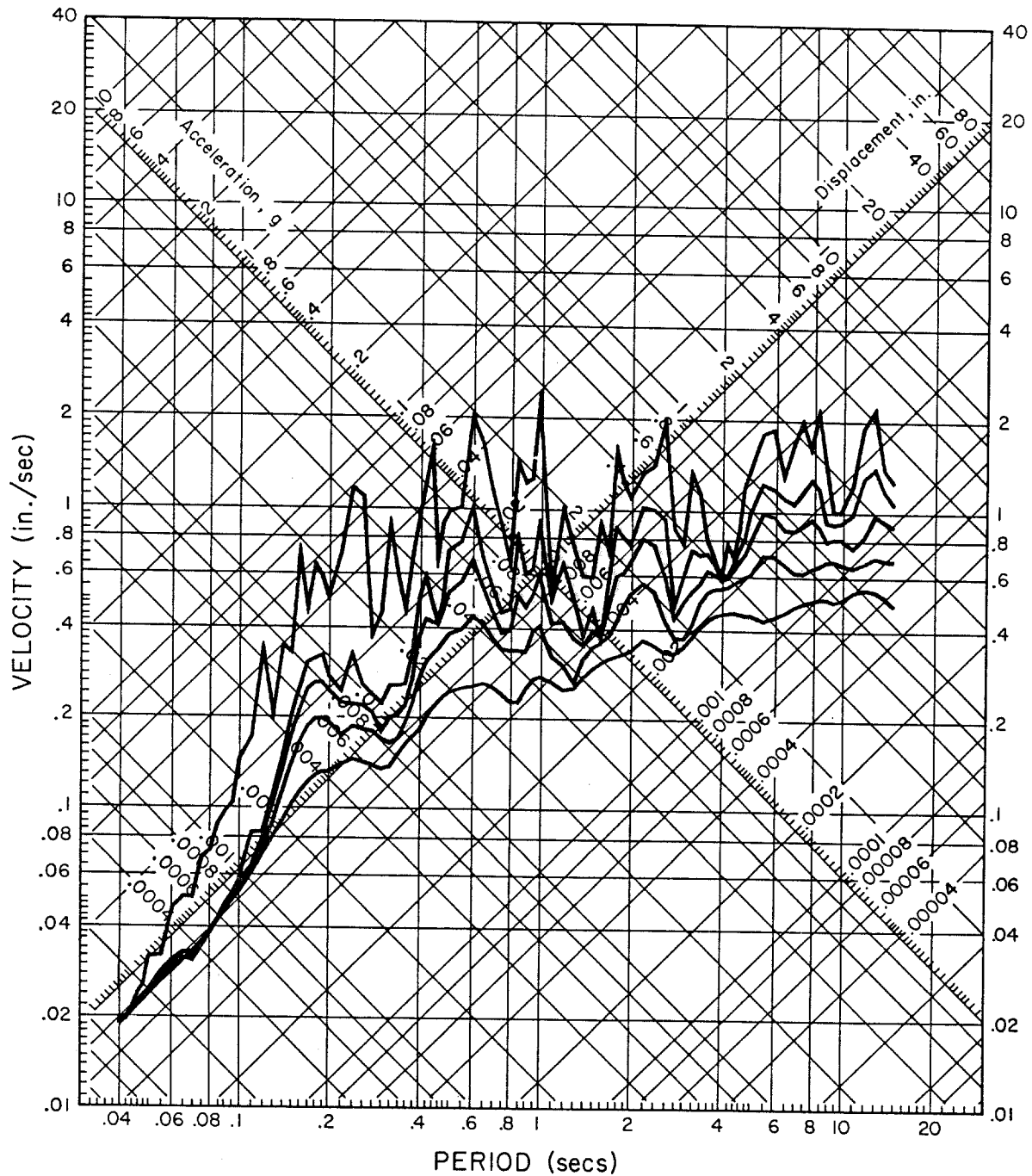


RESPONSE SPECTRUM

IMPERIAL VALLEY EARTHQUAKE JUN 13, 1953 - 2017 PST

IIIT288 53.001.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IMPERIAL VALLEY EARTHQUAKE JUN 13, 1953 - 2017 PST

IIIT288 53.001. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

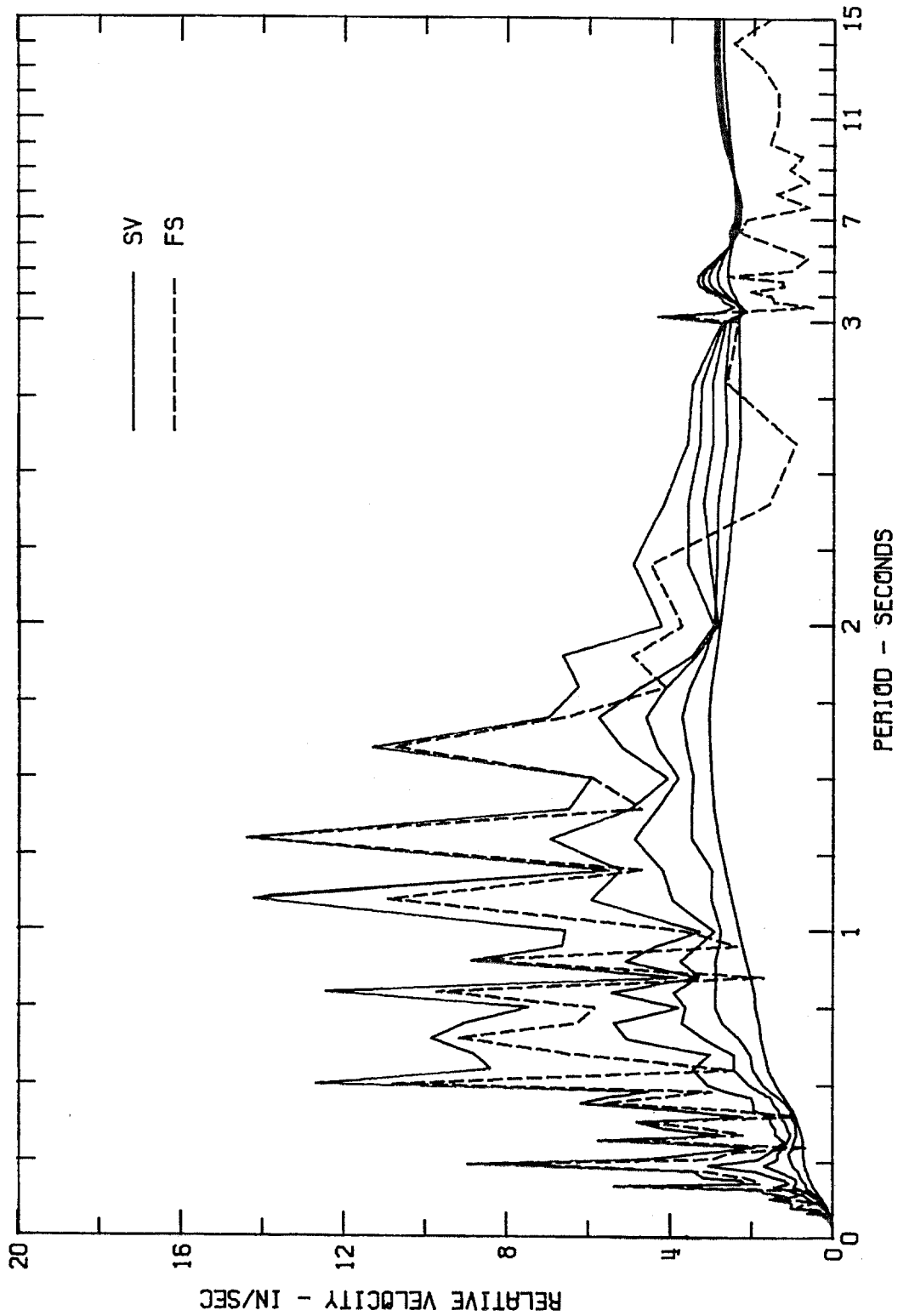
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PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
0.040	173-5	121-6	439-5	776-5	190-4	121-6	323-5	775-5	190-4	120-6	307-5	770-5	189-4	120-6	325-5	767-5	188-4	119-6	341-5	763-5	187-4
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0.044	411-5	149-6	417-5	792-5	214-4	146-6	407-5	775-5	209-4	147-6	410-5	776-5	210-4	146-6	415-5	774-5	209-4	144-6	422-5	768-5	208-4
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.85	829-3	194-3	142-2	274-4	143-2	108-3	809-3	153-4	803-3	695-4	559-3	987-5	513-3	454-4	410-3	655-5	335-3
0.90	874-3	174-3	119-2	220-4	122-2	868-4	642-3	109-4	606-3	674-4	493-3	858-5	470-3	477-4	384-3	613-5	333-3
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7.50	199-2	238-2	199-2	434-5	200-2	139-2	118-2	253-5	116-2	107-2	868-3	193-5	897-3	743-3	703-3	139-5	623-3
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8.50	213-2	288-2	213-2	408-5	213-2	161-2	122-2	228-5	119-2	120-2	935-3	171-5	889-3	895-3	758-3	132-5	662-3
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14.00	424-3	307-2	143-2	160-5	137-2	261-2	125-2	136-5	117-2	208-2	105-2	109-5	933-3	153-2	910-3	832-6	691-3
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DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

RELATIVE VELOCITY RESPONSE SPECTRUM
IMPERIAL VALLEY EARTHQUAKE JUN 13, 1953 - 2017 PST
111T288 53.001.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

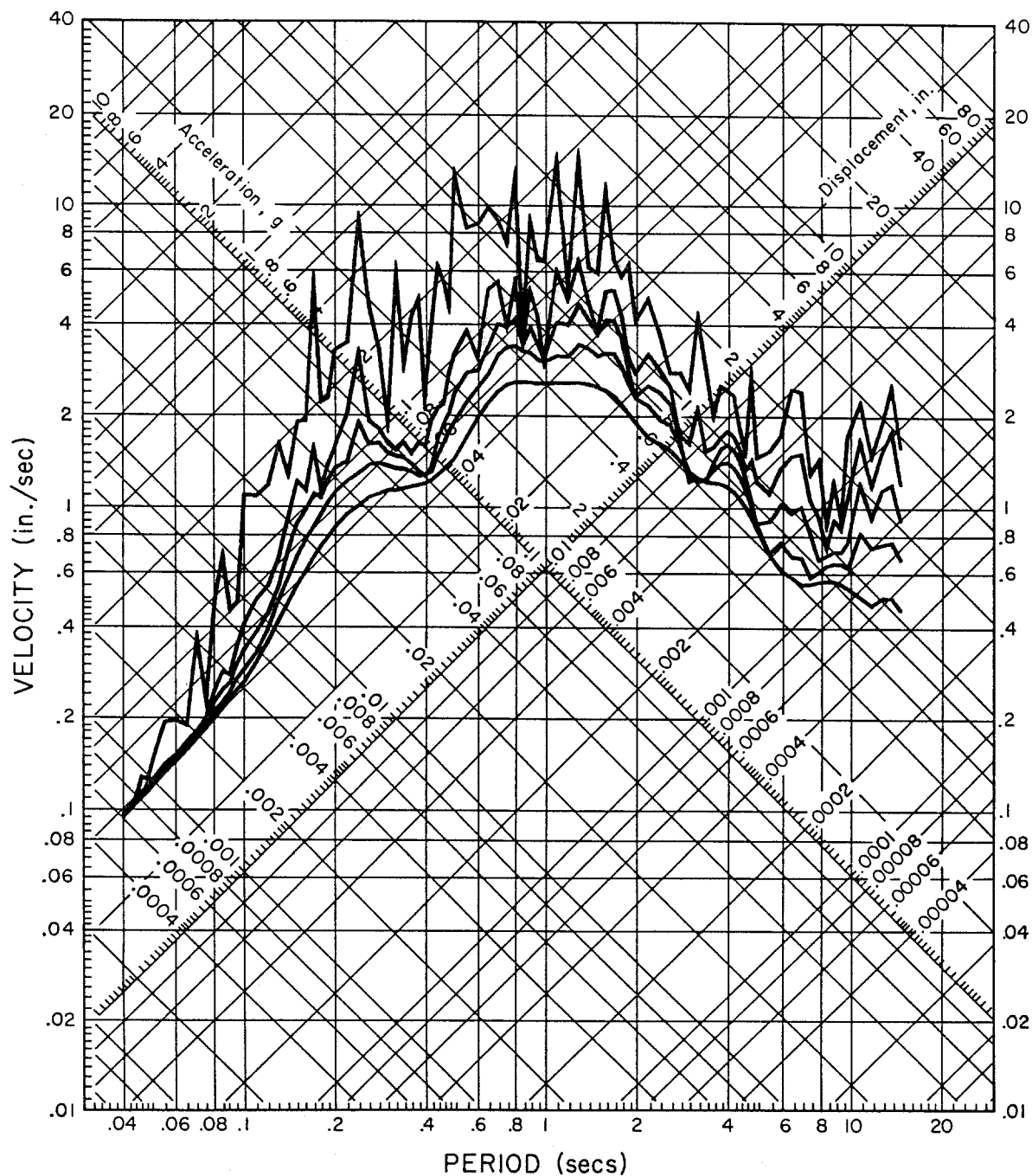


RESPONSE SPECTRUM

IMPERIAL VALLEY EARTHQUAKE JUN 13, 1953 - 2017 PST

IIIT288 53.001.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IMPERIAL VALLEY EARTHQUAKE JUN 13, 1953 - 2017 PST
 111T288 53.001. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

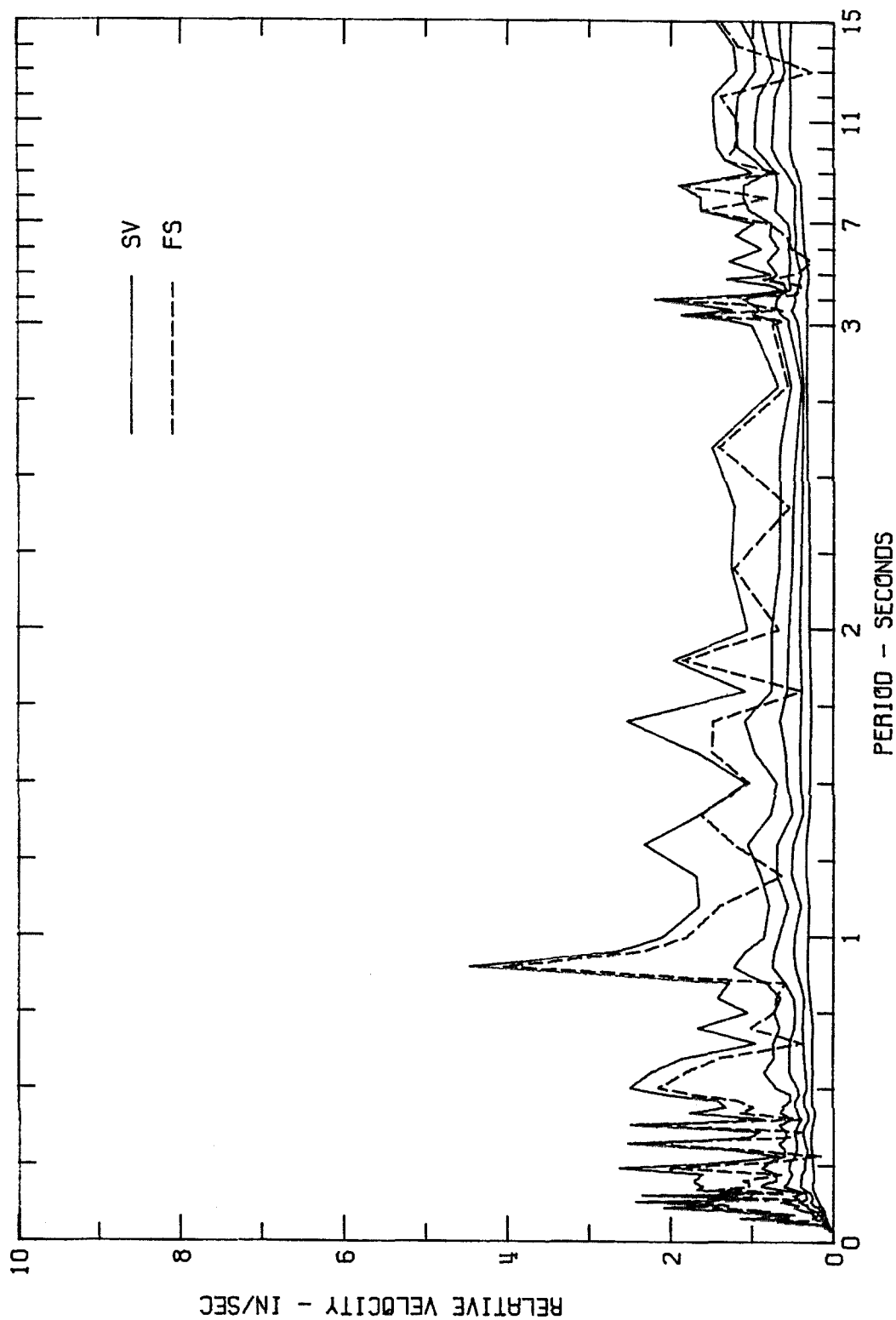
THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	DAMPING = 0 PER CENT	DAMPING = 2 PER CENT	DAMPING = 5 PER CENT	DAMPING = 10 PER CENT	DAMPING = 20 PER CENT
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0.042	105-4	672-6	252-4	389-4	100-3	673-6	200-4	390-4	100-3	669-6	203-4	387-4	100-3	664-6	208-4	384-4	994-4	656-6	207-4	382-4	982-4	
0.044	153-4	766-6	259-4	404-4	109-3	732-6	231-4	386-4	104-3	733-6	230-4	387-4	104-3	732-6	228-4	386-4	104-3	722-6	228-4	383-4	103-3	
0.046	294-4	927-6	454-4	448-4	126-3	797-6	266-4	385-4	108-3	806-6	258-4	389-4	109-3	804-6	253-4	388-4	109-3	791-6	250-4	384-4	108-3	
0.048	199-4	948-6	333-4	420-4	124-3	924-6	296-4	410-4	121-3	896-6	286-4	397-4	117-3	880-6	277-4	391-4	115-3	864-6	273-4	386-4	113-3	
0.050	144-4	113-5	489-4	464-4	142-3	988-6	326-4	404-4	124-3	972-6	308-4	397-4	122-3	958-6	299-4	391-4	120-3	942-6	297-4	387-4	118-3	
0.055	742-4	168-5	901-4	568-4	192-3	122-5	345-4	414-4	140-3	119-5	337-4	402-4	136-3	116-5	350-4	395-4	133-3	114-5	362-4	389-4	130-3	
0.060	855-4	185-5	107-3	527-4	194-3	143-5	502-4	408-4	150-3	140-5	462-4	398-4	146-3	138-5	445-4	395-4	145-3	136-5	441-4	391-4	143-3	
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0.080	395-4	617-5	349-3	986-4	484-3	312-5	155-3	499-4	245-3	286-5	107-3	456-4	225-3	264-5	913-4	426-4	208-3	251-5	877-4	409-4	197-3	
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0.180	180-2	630-4	216-2	199-3	220-2	327-4	109-2	103-3	114-2	308-4	930-3	970-4	107-2	269-4	684-3	862-4	940-3	211-4	531-3	692-4	738-3	
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	DAMPING = 0 PER CENT				DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT				
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RELATIVE VELOCITY RESPONSE SPECTRUM
IMPERIAL VALLEY EARTHQUAKE JUN 13, 1953 - 2017 PST
11117288 53.001.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

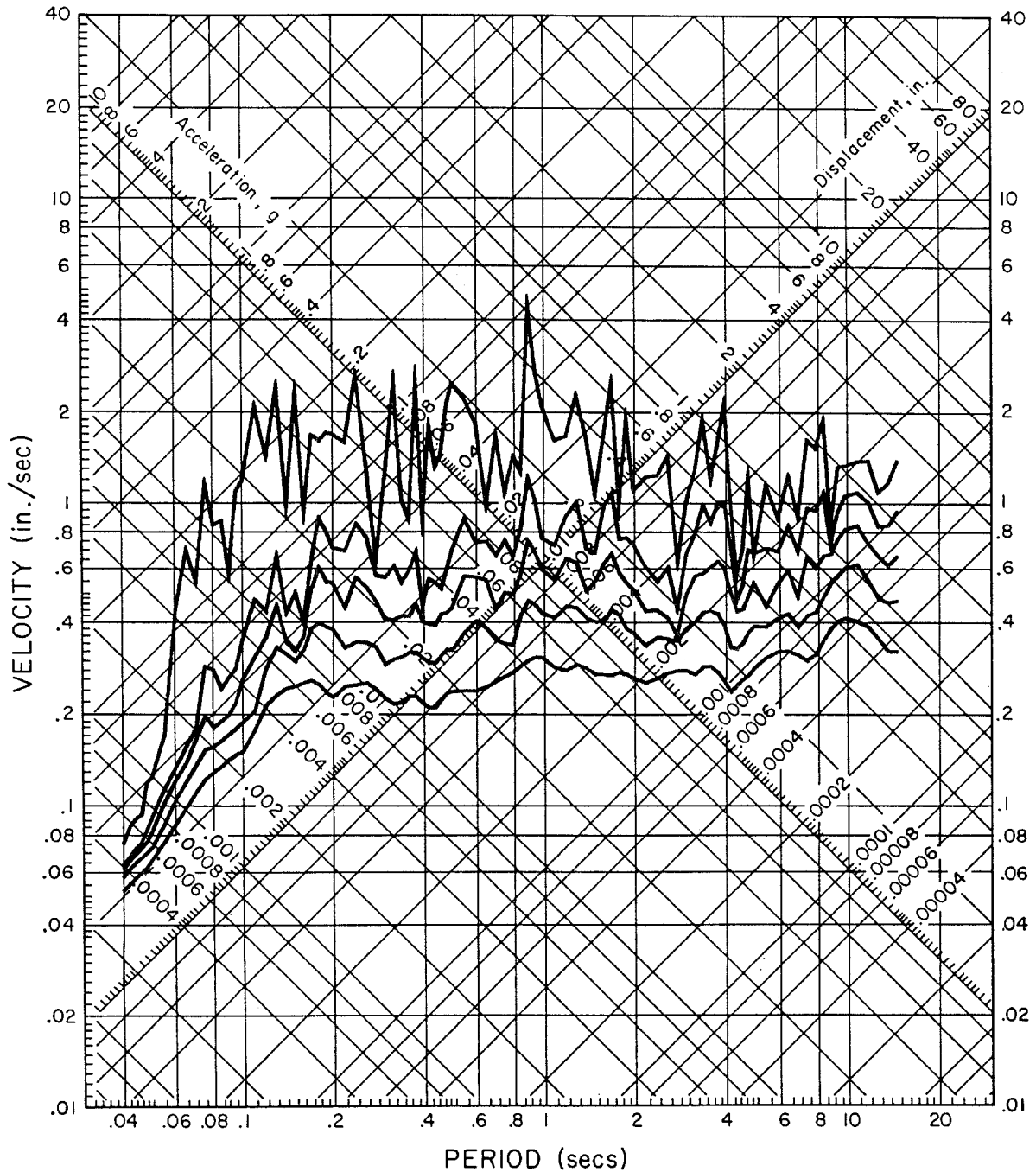


RESPONSE SPECTRUM

IMPERIAL VALLEY EARTHQUAKE JUN 13, 1953 - 2017 PST

IIIT288 53.001.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

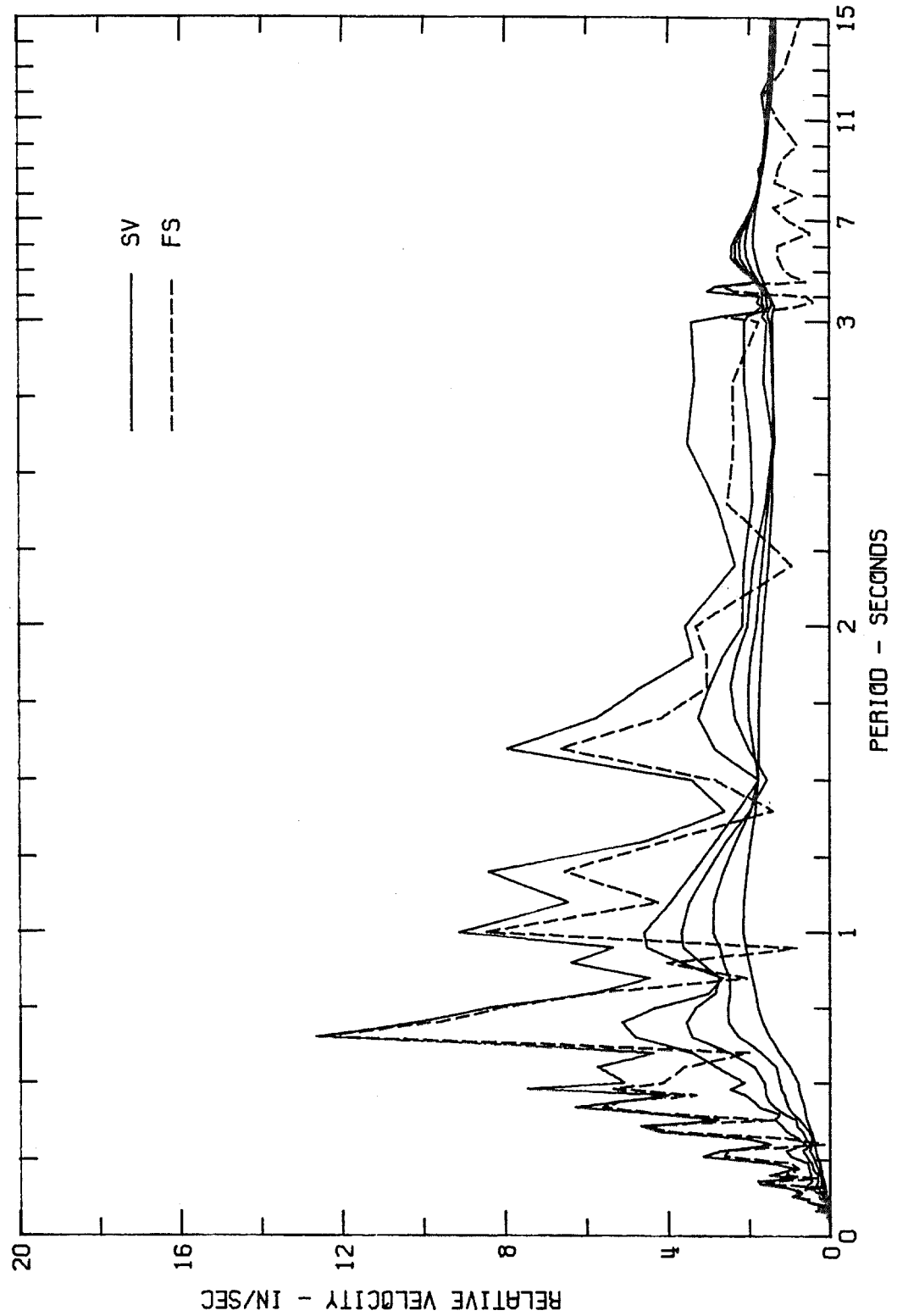
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IIIT288 53.001. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
LOWER CALIFORNIA EARTHQUAKE NOV 12, 1954 - 0427 PST
11117289 54.005.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



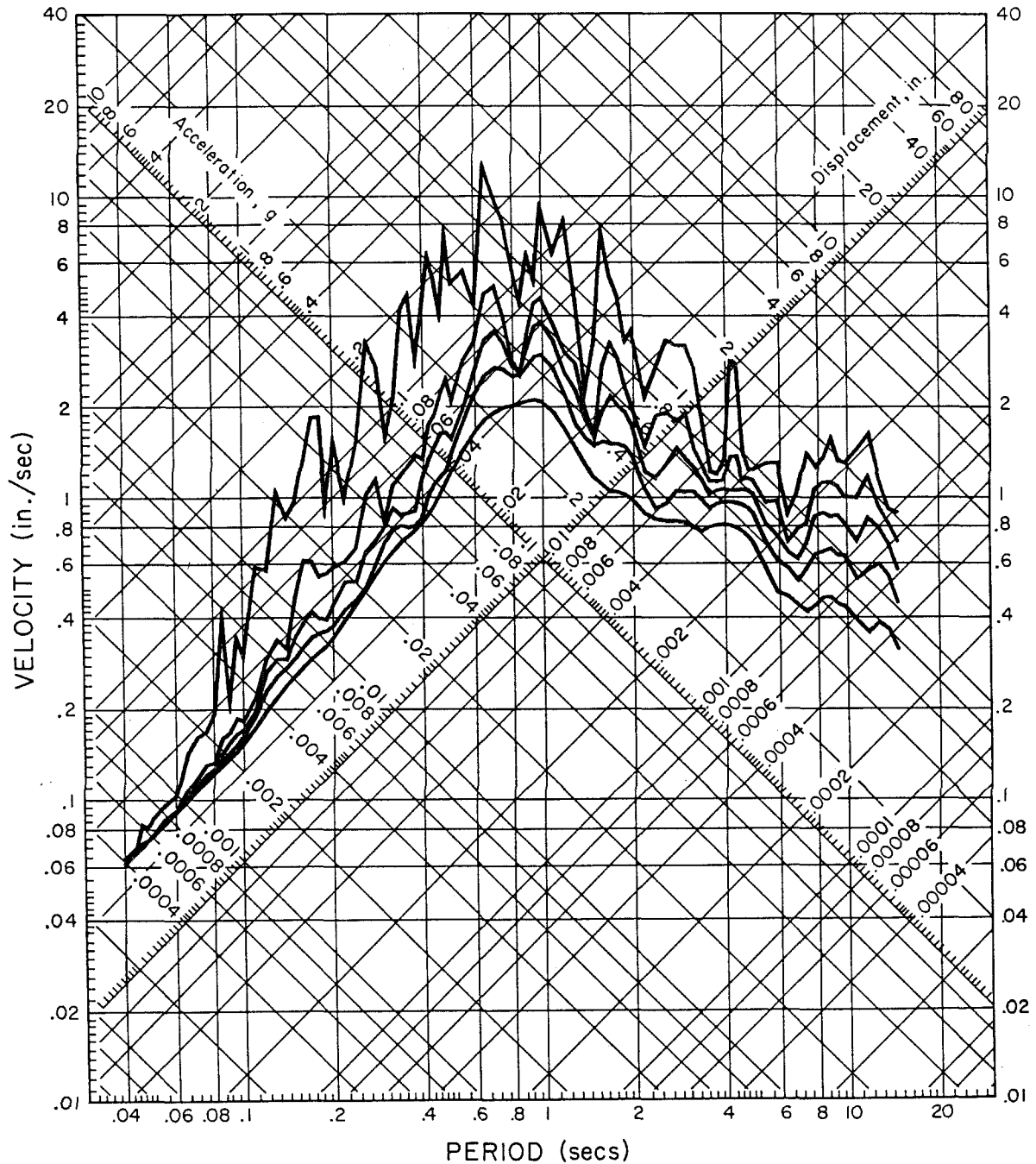
RESPONSE SPECTRUM

LOWER CALIFORNIA EARTHQUAKE

NOV 12, 1954 - 0427 PST

IIIT289 54.005.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



LOWER CALIFORNIA EARTHQUAKE NOV 12, 1954 - 0427 PST
IIII289 54.005. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

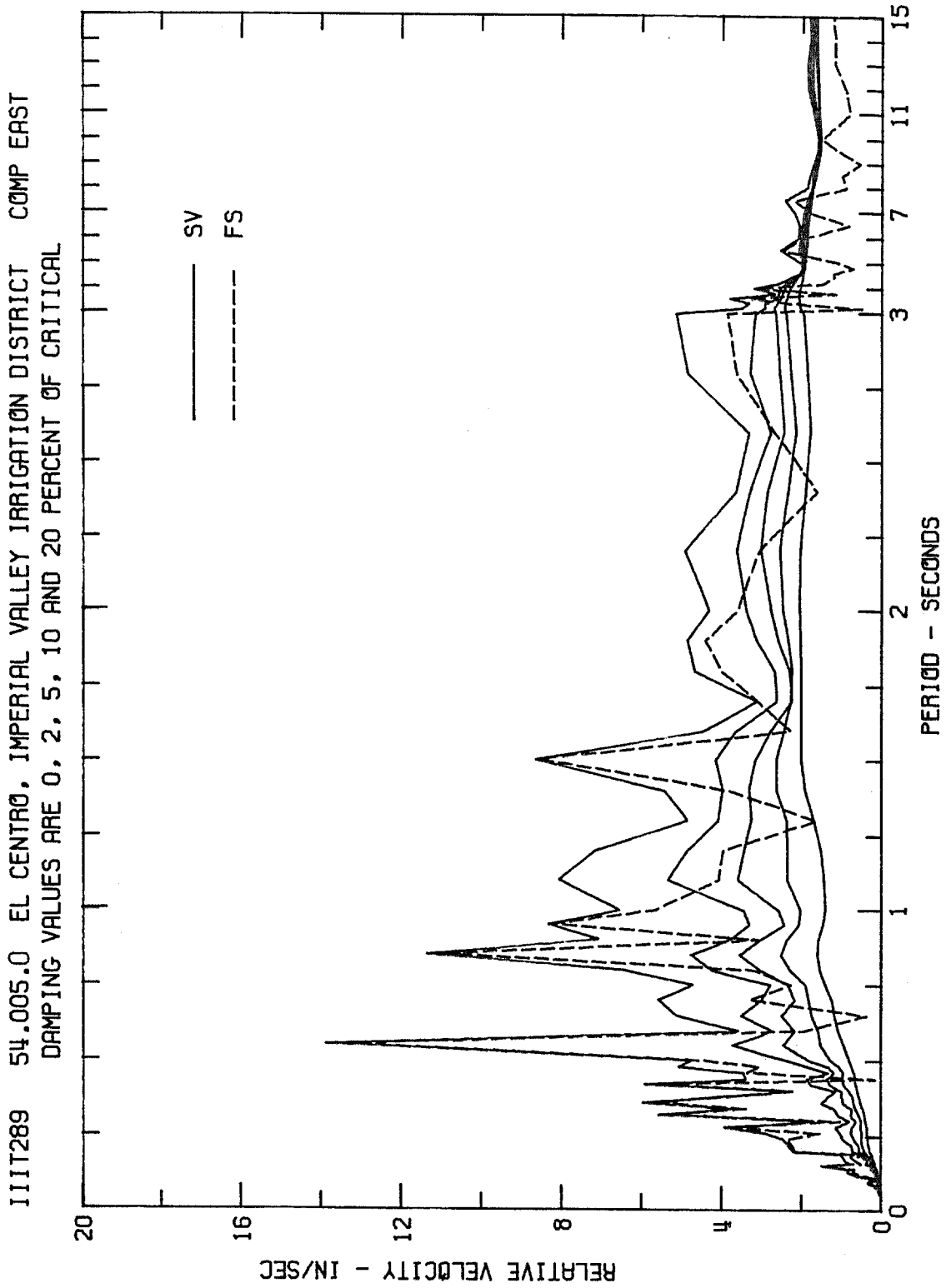
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IIIT289 54.005. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
LOWER CALIFORNIA EARTHQUAKE NOV 12, 1954 - 0427 PST
54.005.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



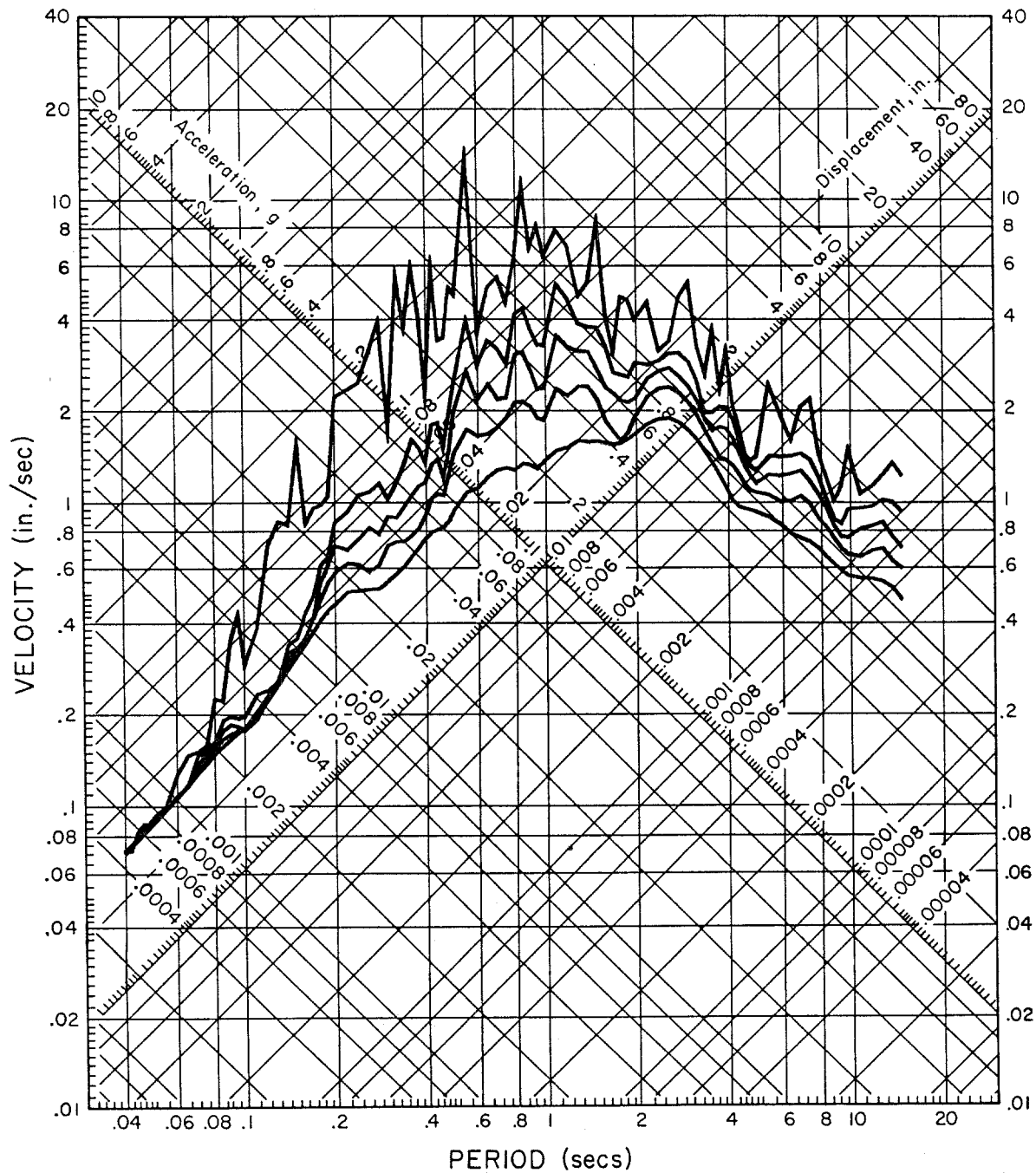
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LOWER CALIFORNIA EARTHQUAKE

NOV 12, 1954 - 0427 PST

IIIT289 54.005.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



LOWER CALIFORNIA EARTHQUAKE NOV 12, 1954 - 0427 PST

1111289 54.005. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.040	186-5	450-6	880-5	287-4	707-4	454-6	676-5	290-4	713-4	452-6	699-5	289-4	711-4	450-6	716-5	287-4	708-4
0.042	417-5	478-6	109-4	277-4	716-4	502-6	764-5	291-4	751-4	501-6	778-5	290-4	750-4	498-6	798-5	289-4	746-4
0.044	288-5	579-6	117-4	306-4	827-4	556-6	853-5	294-4	795-4	553-6	877-5	292-4	790-4	548-6	900-5	290-4	783-4
0.046	542-5	642-6	126-4	310-4	877-4	612-6	108-4	296-4	836-4	606-6	103-4	293-4	828-4	600-6	102-4	291-4	820-4
0.048	414-5	672-6	142-4	298-4	879-4	663-6	125-4	294-4	868-4	660-6	121-4	293-4	864-4	655-6	116-4	291-4	857-4
0.050	604-5	737-6	187-4	301-4	926-4	720-6	142-4	294-4	904-4	717-6	138-4	293-4	901-4	712-6	130-4	291-4	895-4
0.055	226-4	884-6	414-4	299-4	101-3	863-6	192-4	291-4	986-4	863-6	178-4	292-4	986-4	862-6	165-4	292-4	985-4
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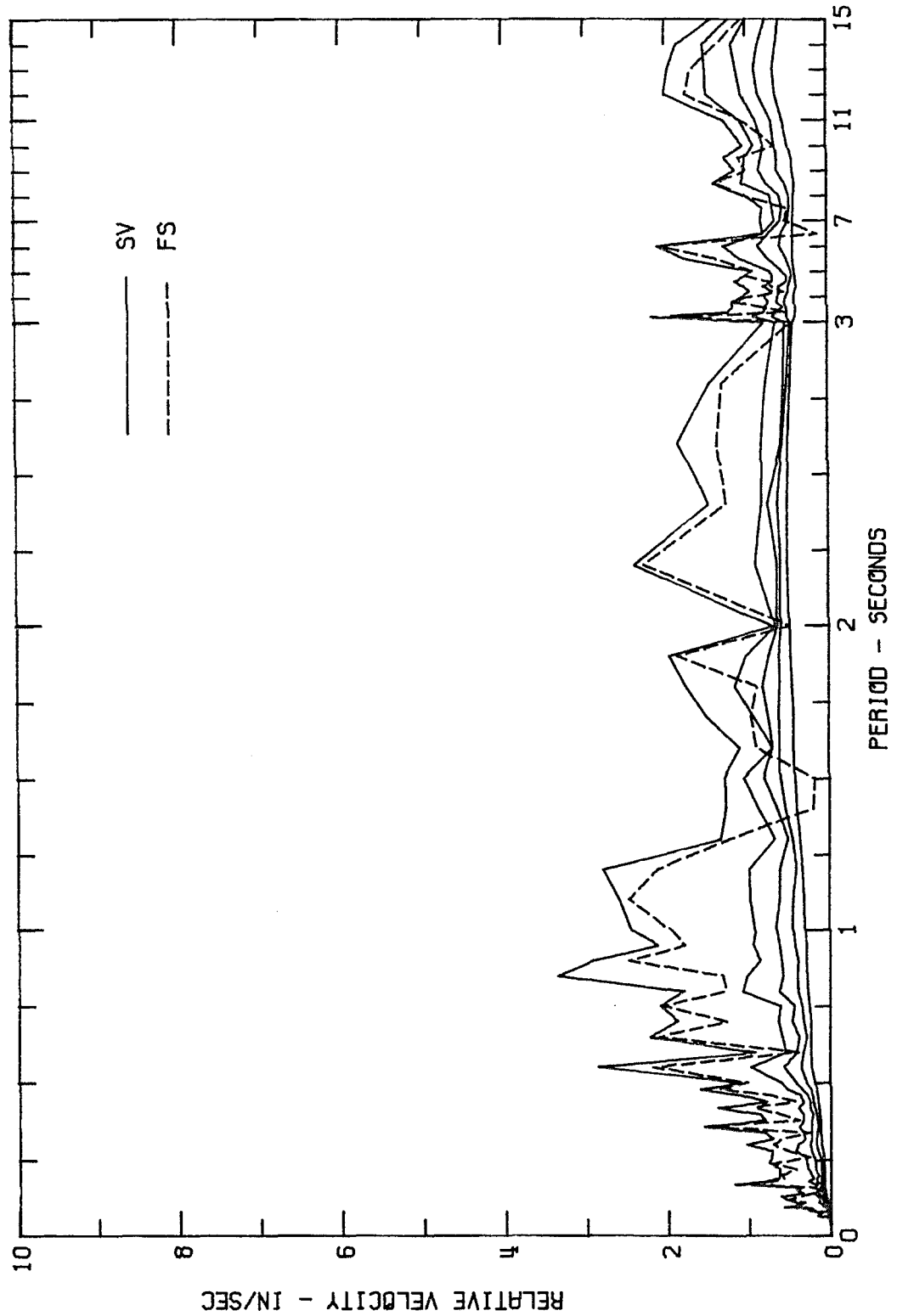
IIIT289 54.005. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM

1111289 LOWER CALIFORNIA EARTHQUAKE NOV 12, 1954 - 0427 PST
54.005.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



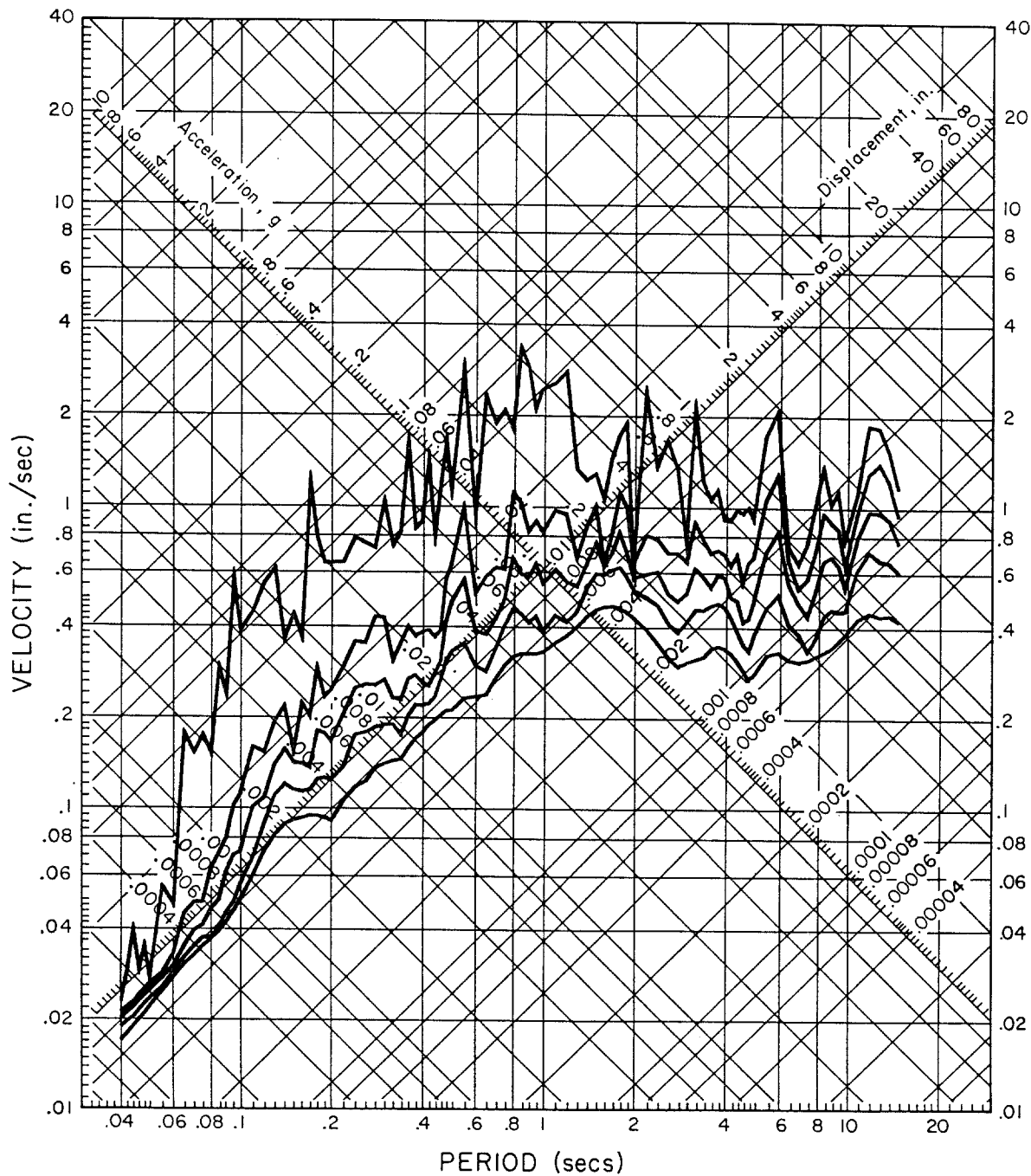
RESPONSE SPECTRUM

LOWER CALIFORNIA EARTHQUAKE

NOV 12, 1954 - 0427 PST

IIIT289 54.005.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



LOWER CALIFORNIA EARTHQUAKE NOV 12, 1954 - 0427 PST

IIIT289 54.005. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

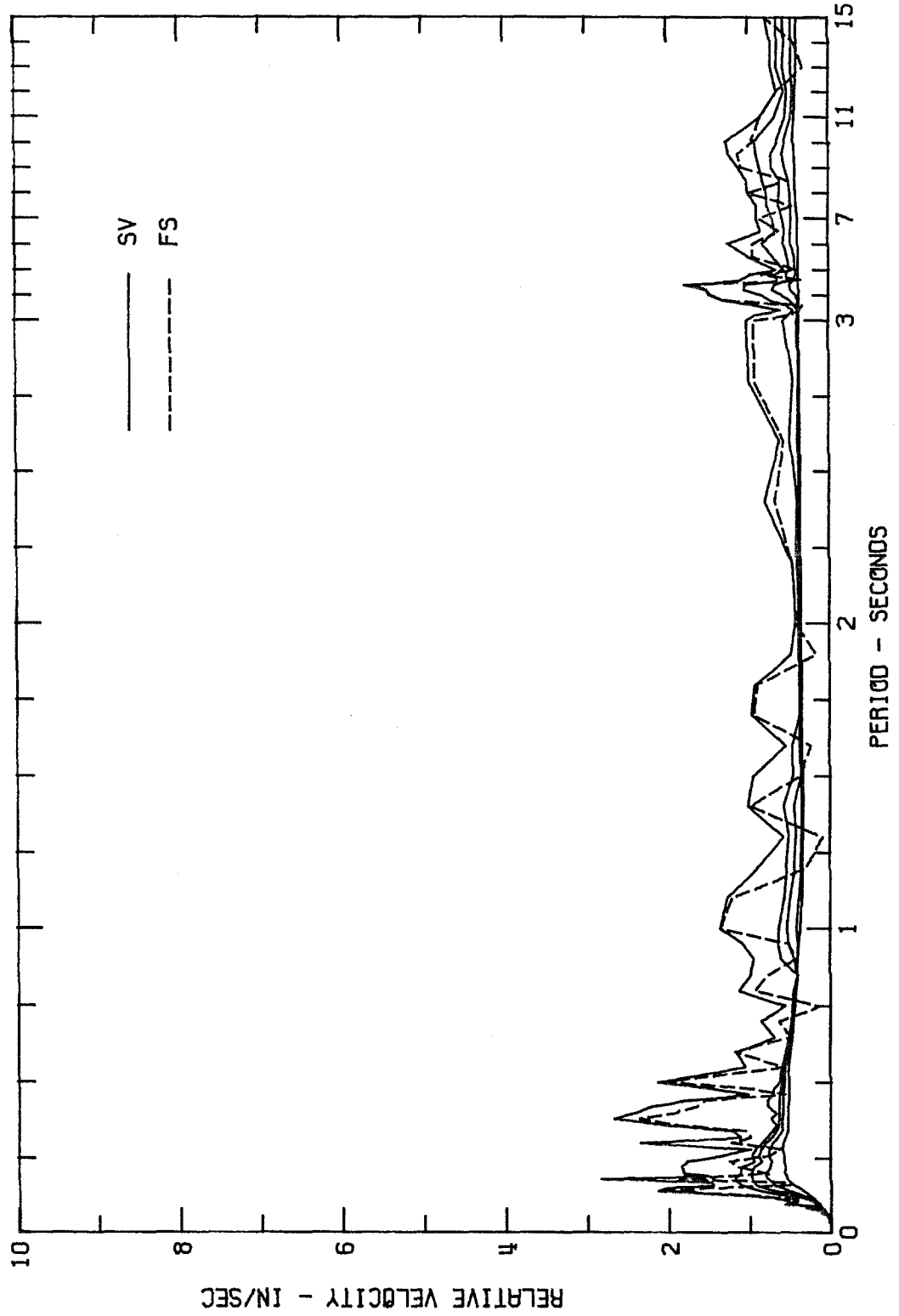
THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV						
0.040	119-4	145-6	136-4	932-5	229-4	134-6	102-4	862-5	211-4	129-6	980-5	824-5	202-4	120-6	922-5	769-5	188-4	108-6	821-5	700-5	170-4																		
0.042	130-4	194-6	177-4	112-4	290-4	148-6	112-4	860-5	221-4	141-6	102-4	826-5	211-4	131-6	953-5	775-5	197-4	120-6	853-5	706-5	180-4																		
0.044	227-4	278-6	269-4	147-4	397-4	160-6	125-4	850-5	228-4	153-6	109-4	820-5	218-4	143-6	101-4	773-5	204-4	133-6	881-5	712-5	190-4																		
0.046	693-5	213-6	168-4	102-4	291-4	177-6	137-4	854-5	242-4	169-6	115-4	814-5	231-4	158-6	107-4	767-5	216-4	146-6	924-5	718-5	200-4																		
0.048	111-4	269-6	265-4	119-4	352-4	194-6	149-4	861-5	253-4	185-6	121-4	823-5	242-4	173-6	112-4	768-5	226-4	161-6	978-5	724-5	210-4																		
0.050	152-4	217-6	184-4	888-5	272-4	210-6	157-4	860-5	264-4	201-6	126-4	823-5	252-4	187-6	115-4	767-5	235-4	176-6	102-4	728-5	222-4																		
0.055	189-4	482-6	415-4	163-4	551-4	249-6	191-4	849-5	285-4	239-6	155-4	818-5	273-4	224-6	126-4	772-5	256-4	217-6	110-4	747-5	248-4																		
0.060	220-4	458-6	448-4	130-4	479-4	318-6	295-4	909-5	333-4	289-6	225-4	822-5	303-4	274-6	157-4	785-5	287-4	263-6	122-4	764-5	275-4																		
0.065	149-3	183-5	175-3	444-4	177-3	469-6	382-4	113-4	453-4	365-6	295-4	891-5	353-4	333-6	211-4	815-5	322-4	315-6	135-4	777-5	304-4																		
0.070	144-3	169-5	151-3	353-4	152-3	547-6	408-4	115-4	491-4	440-6	318-4	918-5	395-4	392-6	240-4	834-5	352-4	364-6	157-4	784-5	327-4																		
0.075	127-3	208-5	168-3	379-4	174-3	585-6	392-4	107-4	490-4	492-6	314-4	899-5	412-4	449-6	249-4	814-5	376-4	419-6	174-4	780-5	351-4																		
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0.095	363-3	877-5	582-3	994-4	580-3	154-5	975-4	175-4	102-3	105-5	609-4	118-4	696-4	743-6	394-4	854-5	491-4	694-6	267-4	806-5	459-4																		
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0.130	408-3	129-4	624-3	785-4	627-3	400-5	168-3	241-4	193-3	288-5	123-3	177-4	139-3	228-5	903-4	137-4	110-3	169-5	622-4	105-4	817-4																		
0.140	253-3	807-5	344-3	421-4	362-3	485-5	210-3	255-4	218-3	350-5	150-3	185-4	157-3	267-5	106-3	140-4	114-3	196-5	703-4	108-4	883-4																		
0.150	130-3	105-4	438-3	479-4	441-3	366-5	151-3	165-4	153-3	336-5	130-3	154-4	141-3	273-5	110-3	128-4	114-3	217-5	779-4	104-4	913-4																		
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0.170	106-2	329-4	119-2	116-3	121-2	541-5	188-3	192-4	200-3	367-5	128-3	131-4	135-3	309-5	114-3	112-4	114-3	255-5	861-4	968-5	946-4																		
0.180	679-3	226-4	789-3	713-4	789-3	839-5	284-3	266-4	292-3	516-5	176-3	163-4	180-3	357-5	128-3	116-4	124-3	270-5	882-4	917-5	942-4																		
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0.240	726-3	303-4	767-3	538-4	793-3	136-4	303-3	243-4	357-3	955-5	197-3	171-4	250-3	669-5	127-3	121-4	175-3	447-5	904-4	835-5	117-3																		
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0.300	719-3	501-4	104-2	570-4	105-2	204-4	413-3	231-4	429-3	127-4	268-3	147-4	266-3	903-5	181-3	106-4	189-3	670-5	121-3	804-5	140-3																		
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.80	128-2	229-3	180-2	366-4	179-2	142-3	108-2	228-4	112-2	869-4	635-3	139-4	682-3	588-4	406-3	952-5	462-3	407-4	284-3	678-5	320-3
0.85	132-2	457-3	337-2	648-4	338-2	139-3	102-2	197-4	102-2	818-4	588-3	116-4	605-3	601-4	418-3	863-5	444-3	442-4	296-3	657-5	327-3
0.90	249-2	416-3	292-2	525-4	290-2	119-3	861-3	150-4	831-3	839-4	604-3	106-4	586-3	596-4	409-3	773-5	416-3	468-4	302-3	620-5	327-3
0.95	179-2	319-3	212-2	361-4	211-2	137-3	959-3	155-4	907-3	988-4	634-3	112-4	653-3	661-4	446-3	770-5	437-3	493-4	306-3	588-5	326-3
1.00	196-2	391-3	245-2	400-4	246-2	132-3	928-3	135-4	832-3	890-4	665-3	915-5	559-3	620-4	469-3	653-5	390-3	528-4	319-3	569-5	332-3
1.10	248-2	452-3	260-2	382-4	258-2	171-3	981-3	145-4	981-3	109-3	612-3	927-5	623-3	771-4	458-3	664-5	440-3	623-4	324-3	560-5	356-3
1.20	213-2	539-3	280-2	382-4	282-2	181-3	999-3	129-4	952-3	108-3	618-3	775-5	568-3	799-4	416-3	580-5	418-3	719-4	346-3	547-5	376-3
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RELATIVE VELOCITY RESPONSE SPECTRUM
IMPERIAL COUNTY FORESHOCK DEC 16, 1955 - 2117 PST
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

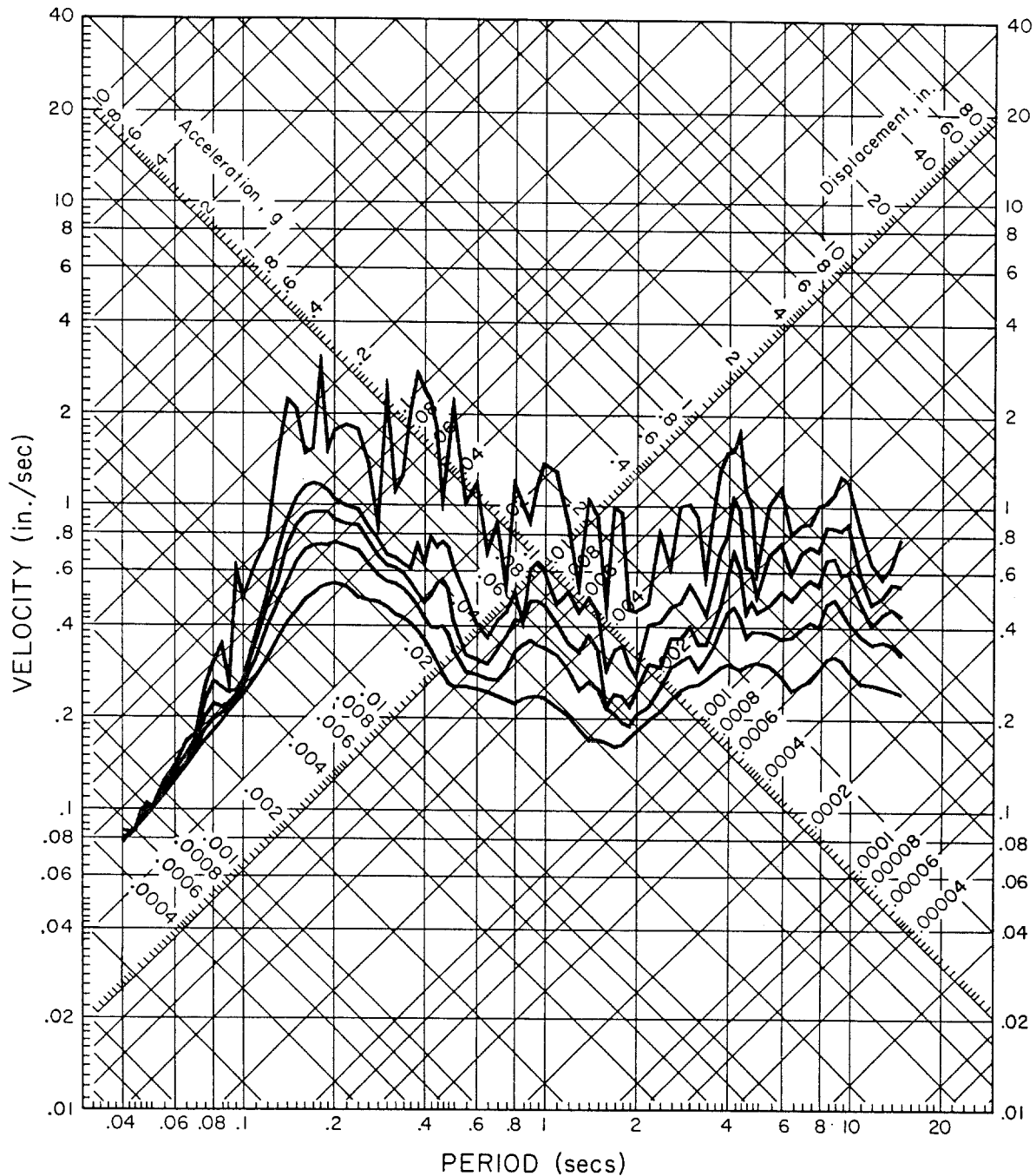


RESPONSE SPECTRUM

IMPERIAL COUNTY FORESHOCK DEC 16, 1955 - 2117 PST

IIIT290 55.003.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IMPERIAL COUNTY FORESHOCK DEC 16, 1955 - 2117 PST

11117290 55.003. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
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0.044	198-4	595-6	284-4	314-4	850-4	587-6	249-4	310-4	838-4	590-6	235-4	311-4	842-4	596-6	232-4	315-4	851-4
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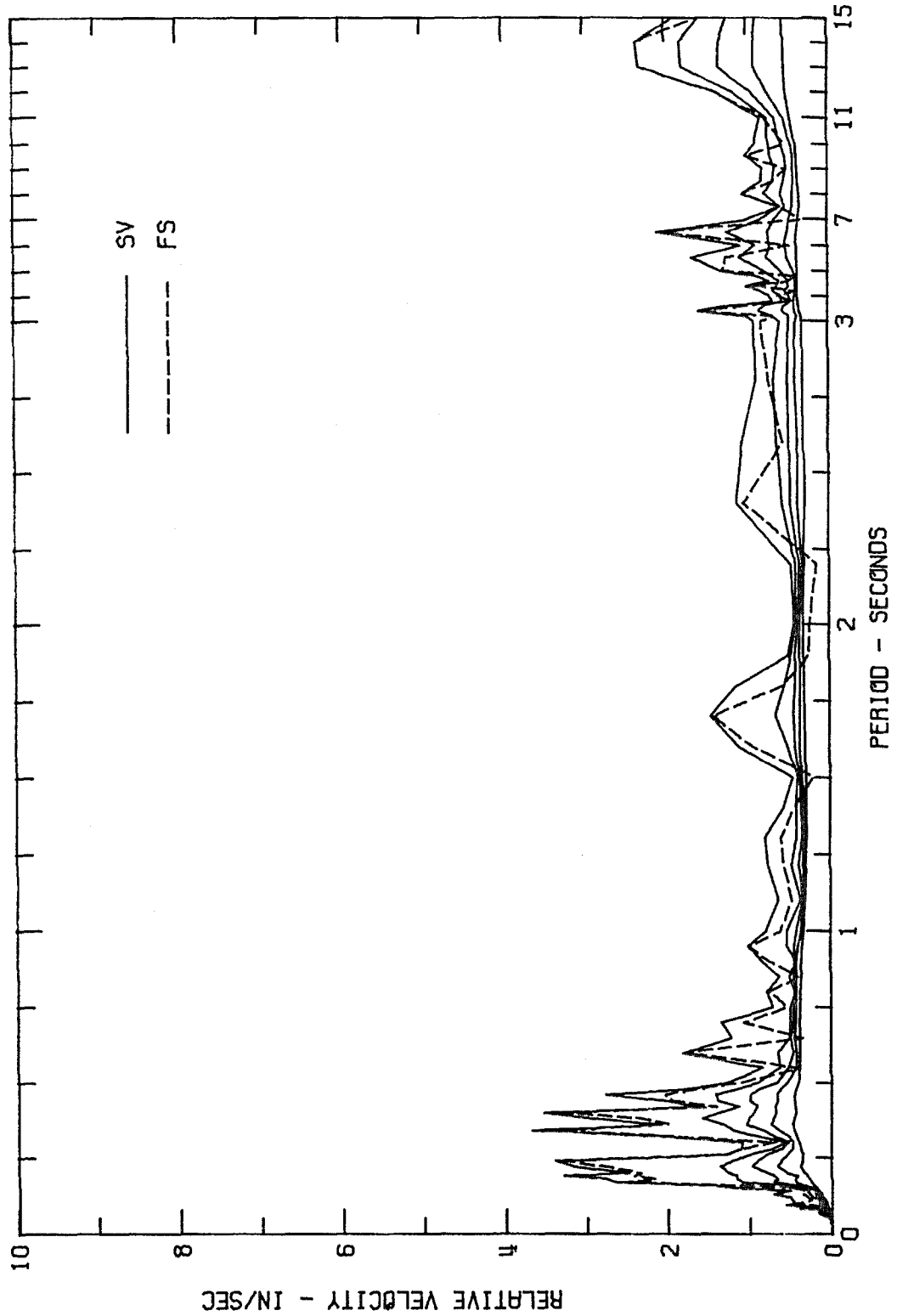
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IIIT290 55.003. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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11117290
RELATIVE VELOCITY RESPONSE SPECTRUM
IMPERIAL COUNTY FORESHOCK DEC 16, 1955 - 2117 PST
55.003.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

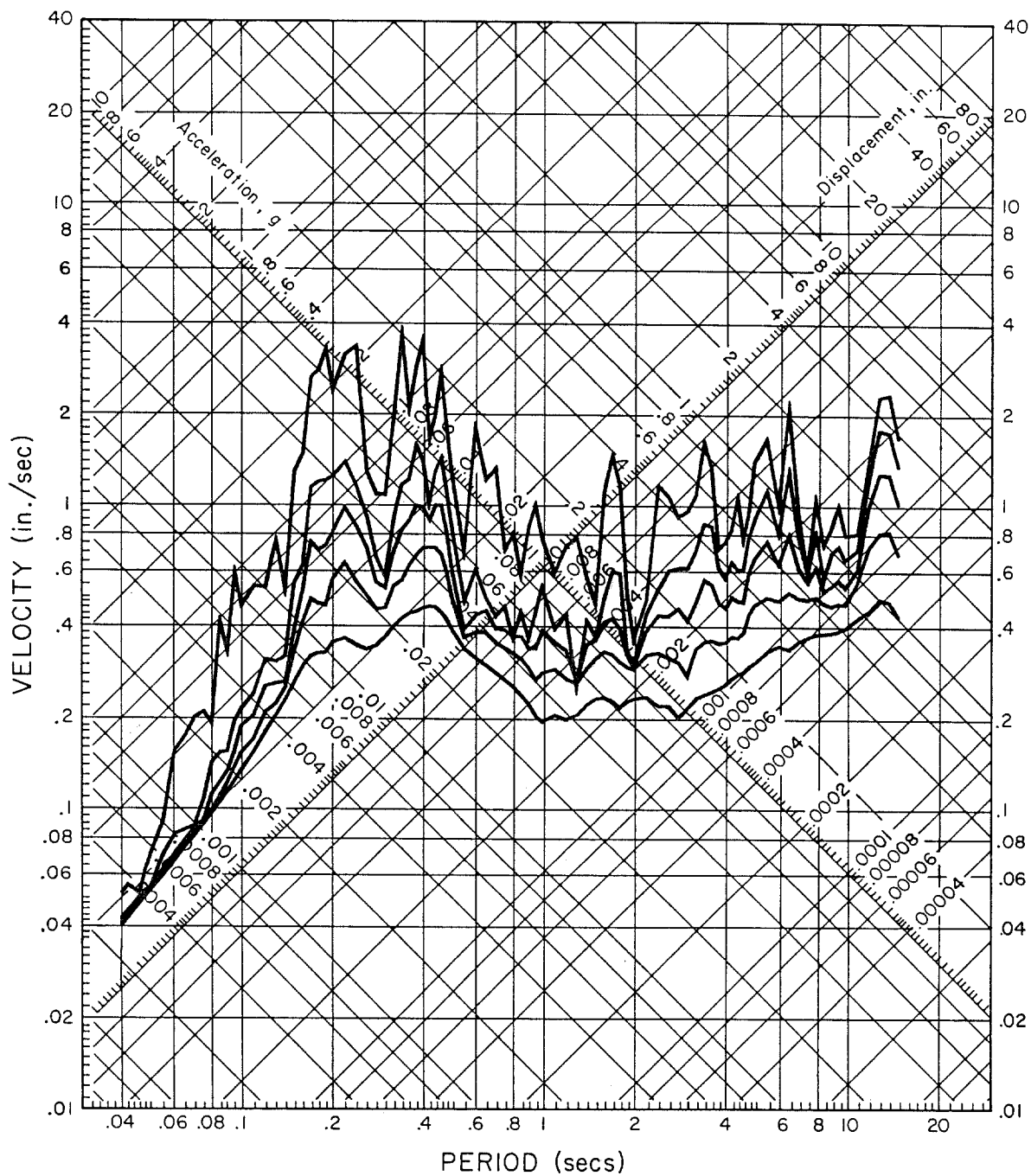


RESPONSE SPECTRUM

IMPERIAL COUNTY FORESHOCK DEC 16, 1955 - 2117 PST

IIIT290 55.003.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IMPERIAL COUNTY FORESHOCK DEC 16, 1955 - 2117 PST

IIIIY290	55.003.	EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT	COMP EAST
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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

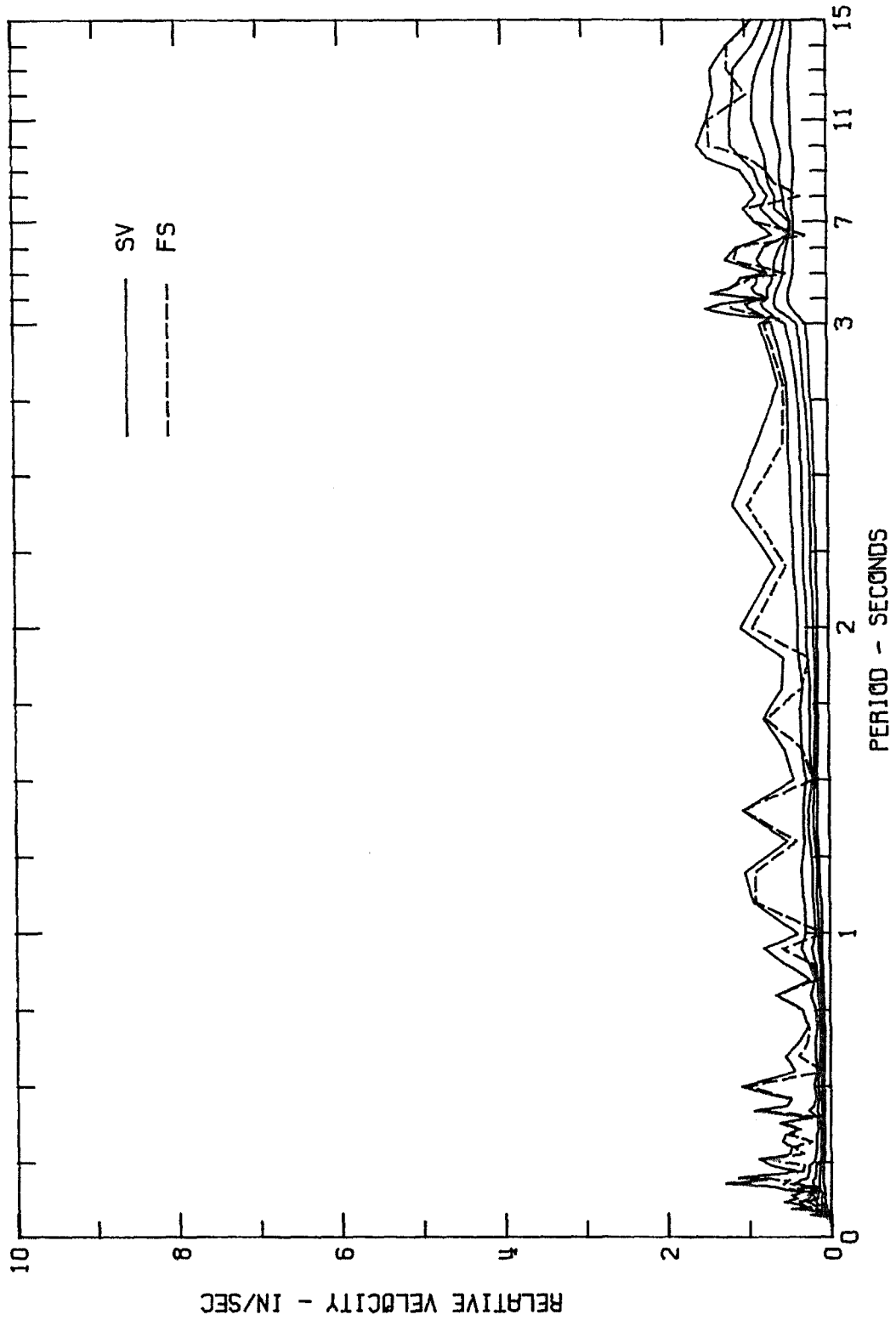
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IIIT290 55.003. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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0.85	414-3	798-4	646-3	113-4	590-3	606-4	528-3	856-5	448-3	504-4	469-3	719-5	372-3	425-4	430-3	619-5	314-3
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RELATIVE VELOCITY RESPONSE SPECTRUM
IMPERIAL COUNTY FORESHOCK DEC 16, 1955 - 2117 PST
11117290 55.003.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

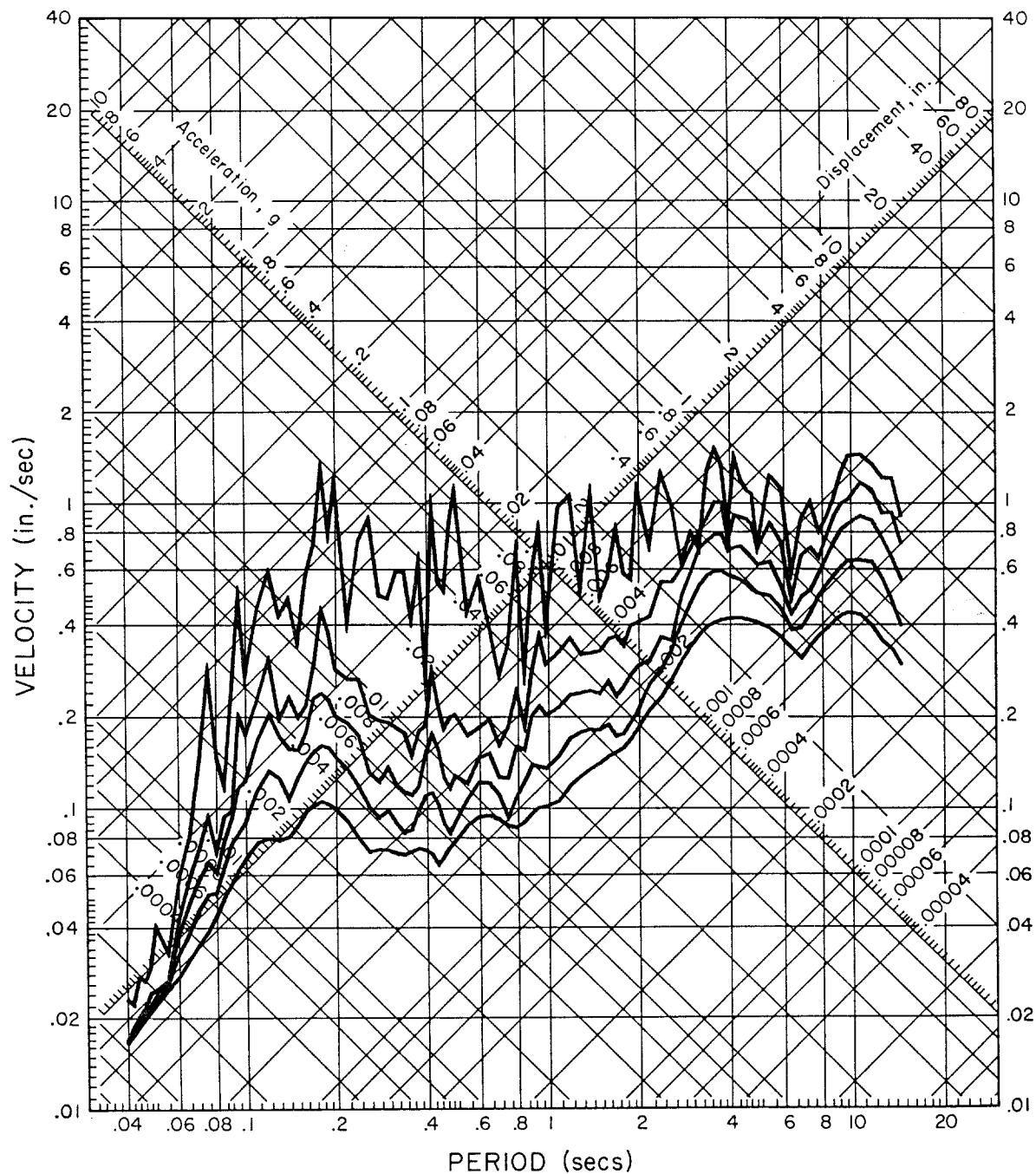


RESPONSE SPECTRUM

IMPERIAL COUNTY FORESHOCK DEC 16, 1955 - 2117 PST

IIIT290 55.003.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IIIT290 55.003. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

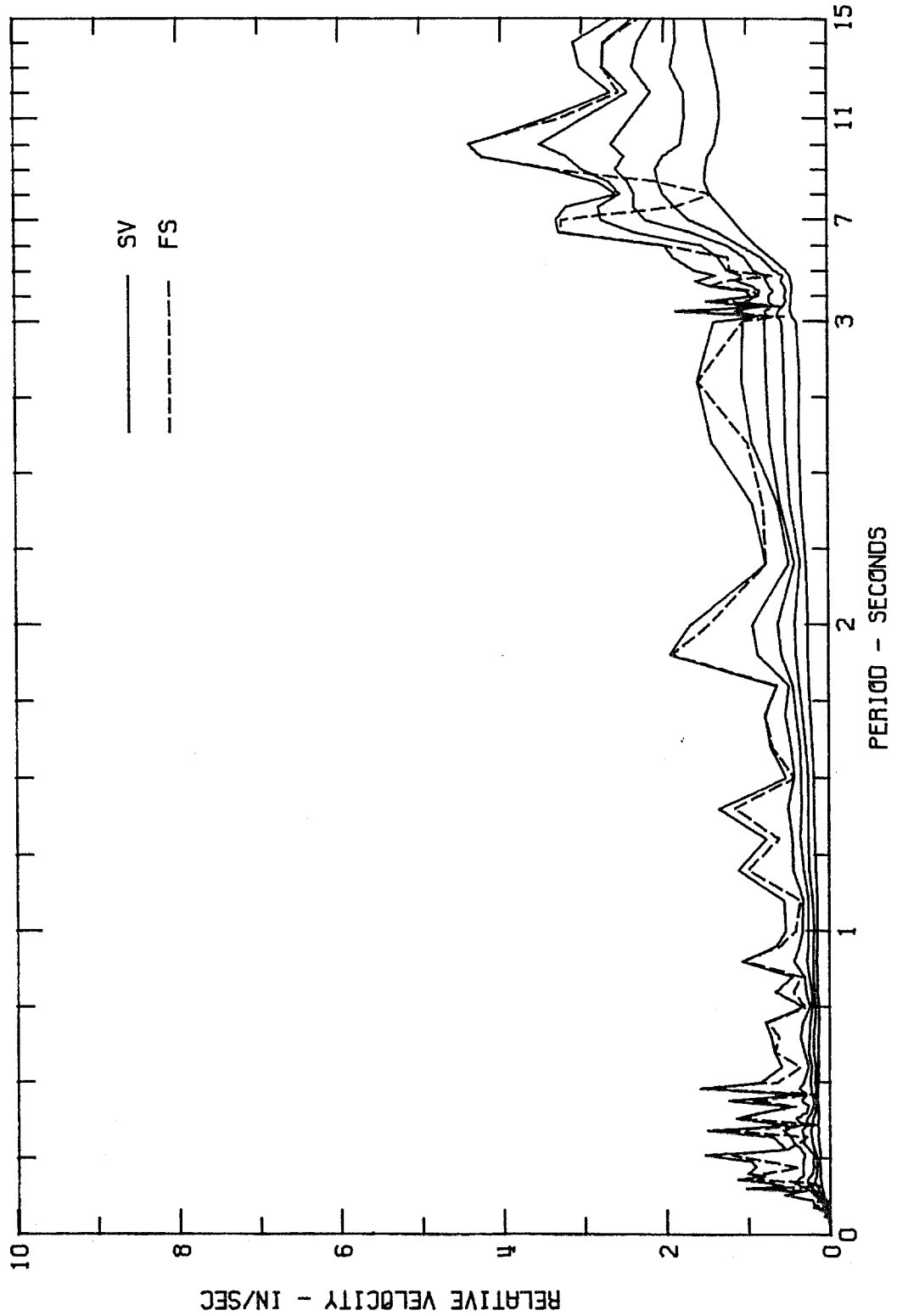
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0.044	860-5	190-6	138-4	100-4	271-4	141-6	912-5	748-5	202-4	135-6	868-5	717-5	194-4	132-6	828-5	703-5	189-4	130-6	831-5	692-5	186-4
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0.050	290-4	320-6	308-4	131-4	402-4	195-6	168-4	800-5	246-4	186-6	143-4	766-5	234-4	180-6	125-4	745-5	227-4	175-6	116-4	722-5	220-4
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0.060	410-4	560-6	546-4	159-4	586-4	414-6	332-4	117-4	433-4	363-6	286-4	104-4	381-4	314-6	267-4	901-5	329-4	263-6	178-4	768-5	275-4
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0.075	250-3	333-5	272-3	607-4	279-3	111-5	793-4	203-4	935-4	784-6	497-4	143-4	657-4	613-6	342-4	112-4	514-4	463-6	266-4	877-5	388-4
0.080	941-4	184-5	135-3	294-4	144-3	900-6	634-4	144-4	706-4	769-6	493-4	122-4	604-4	663-6	383-4	106-4	521-4	561-6	323-4	942-5	441-4
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0.110	378-3	790-5	445-3	688-4	451-3	400-5	229-3	336-4	228-3	293-5	160-3	245-4	167-3	201-5	107-3	176-4	115-3	134-5	719-4	121-4	766-4
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IIII290 55.003. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT									
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV																
0.75	342-3	410-4	343-3	746-5	343-3	221-4	173-3	402-5	185-3	150-4	122-3	274-5	125-3	110-4	971-4	206-5	925-4	104-4	787-4	203-5	873-4																												

RELATIVE VELOCITY RESPONSE SPECTRUM
IMPERIAL COUNTY FORESHOCK DEC 16, 1955 - 2141 PST
111T291 55.004.0 EL CENTR0, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

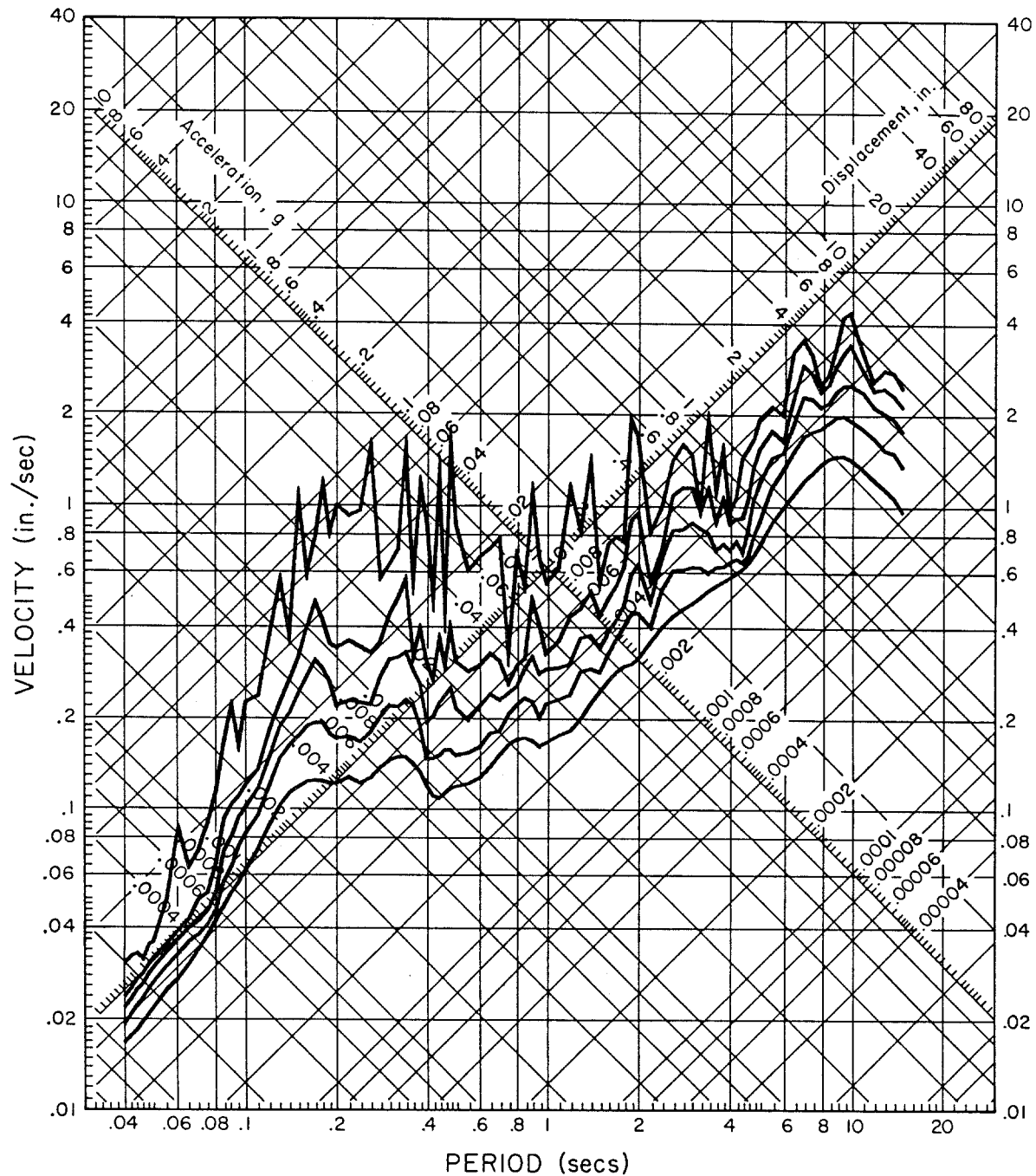


RESPONSE SPECTRUM

IMPERIAL COUNTY FORESHOCK DEC 16, 1955 - 2141 PST

IIIT291 55.004.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IMPERIAL COUNTY FORESHOCK DEC 16, 1955 - 2141 PST
 IIII291 55.004. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
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0.042	147-4	213-6	193-4	123-4	319-4	167-6	164-4	969-5	250-4	155-6	151-4	893-5	232-4	138-6	132-4	797-5	206-4
0.044	141-4	229-6	216-4	121-4	327-4	188-6	173-4	998-5	269-4	174-6	160-4	925-5	249-4	154-6	141-4	826-5	221-4
0.046	135-4	229-6	224-4	110-4	312-4	205-6	179-4	100-4	281-4	190-6	167-4	933-5	260-4	171-6	148-4	840-5	234-4
0.048	157-4	266-6	230-4	118-4	348-4	230-6	183-4	102-4	301-4	214-6	171-4	947-5	280-4	191-6	153-4	849-5	250-4
0.050	180-4	286-6	238-4	117-4	360-4	253-6	194-4	103-4	318-4	235-6	180-4	963-5	295-4	210-6	160-4	865-5	264-4
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0.060	700-4	817-6	768-4	232-4	856-4	371-6	251-4	105-4	389-4	347-6	216-4	994-5	363-4	312-6	192-4	903-5	326-4
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0.070	172-4	805-6	619-4	168-4	723-4	550-6	338-4	114-4	494-4	465-6	297-4	970-5	417-4	421-6	244-4	896-5	378-4
0.075	747-4	106-5	844-4	193-4	893-4	621-6	417-4	113-4	520-4	538-6	341-4	979-5	451-4	487-6	281-4	887-5	408-4
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0.090	177-3	315-5	210-3	397-4	219-3	147-5	775-4	185-4	102-3	115-5	640-4	145-4	806-4	918-6	484-4	116-4	641-4
0.095	884-4	242-5	151-3	275-4	160-3	166-5	857-4	187-4	109-3	141-5	710-4	158-4	933-4	112-5	540-4	128-4	743-4
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DAMPING = 0 PER CENT

DAMPING = 2 PER CENT

DAMPING = 5 PER CENT

DAMPING = 10 PER CENT

DAMPING = 20 PER CENT

PSV

IIIT291 55.004. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

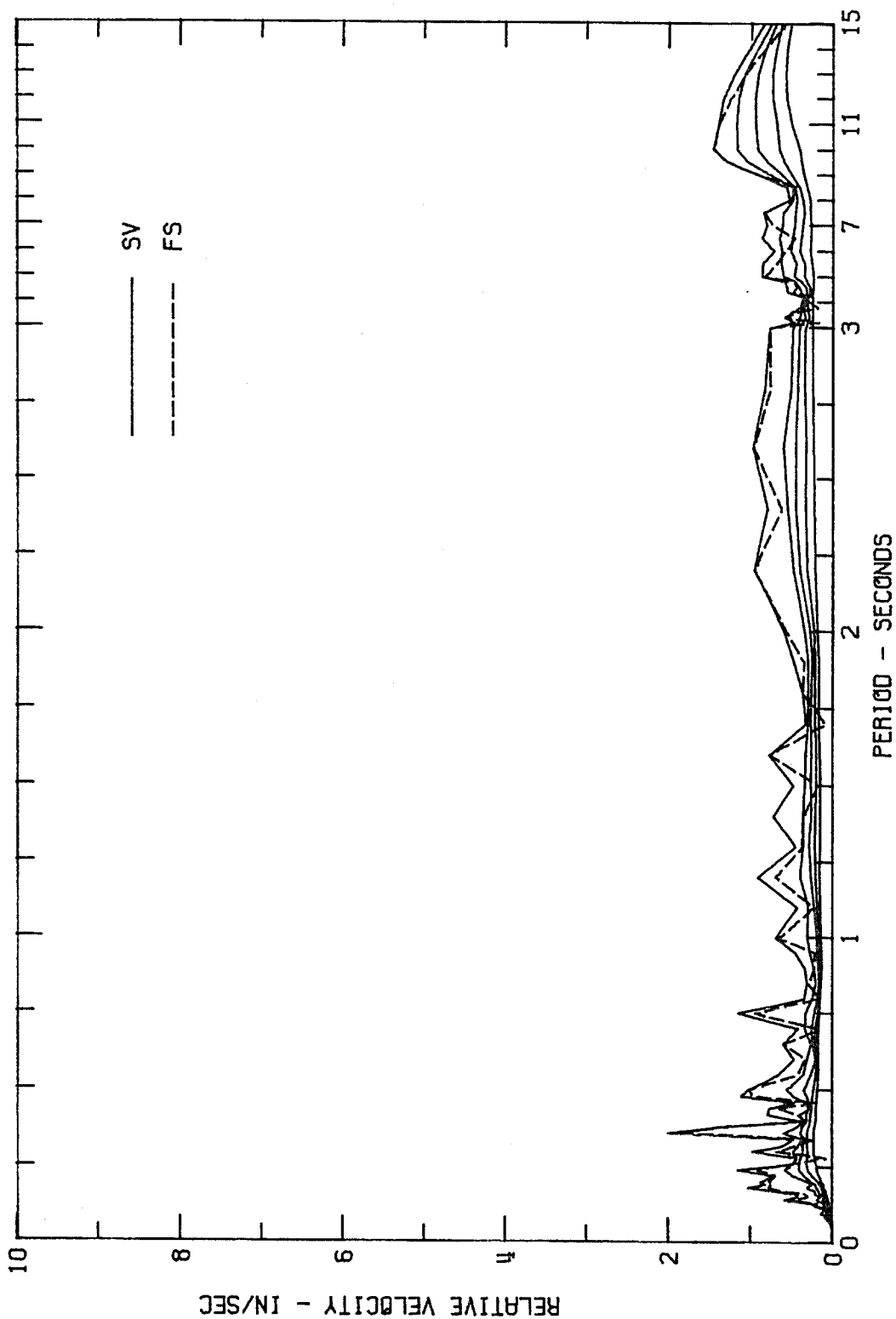
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RELATIVE VELOCITY RESPONSE SPECTRUM

IMPERIAL COUNTY FORESHOCK DEC 16, 1955 - 2141 PST

11117291 55.004.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

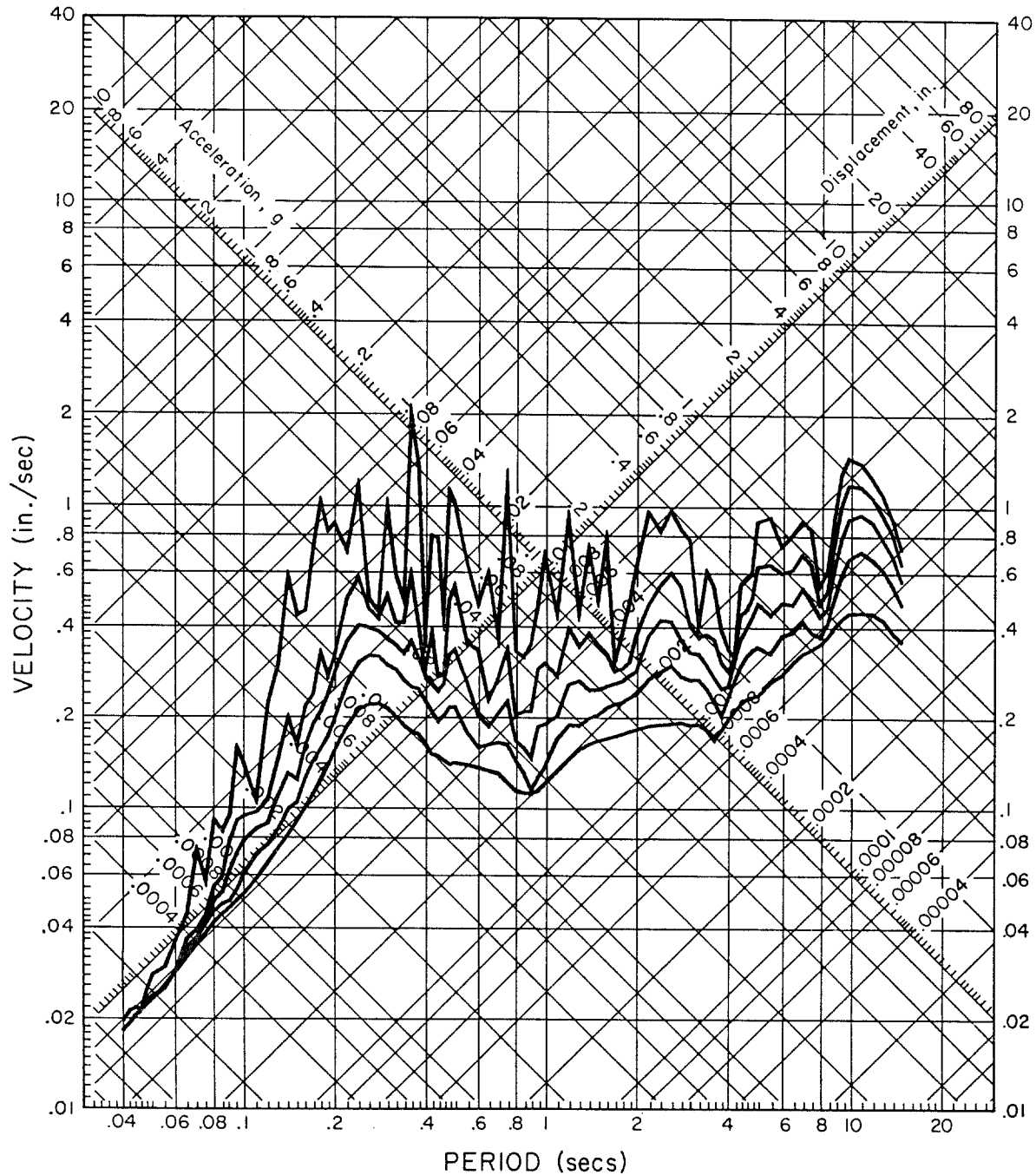


RESPONSE SPECTRUM

IMPERIAL COUNTY FORESHOCK DEC 16, 1955 - 2141 PST

IIIT291 55.004.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

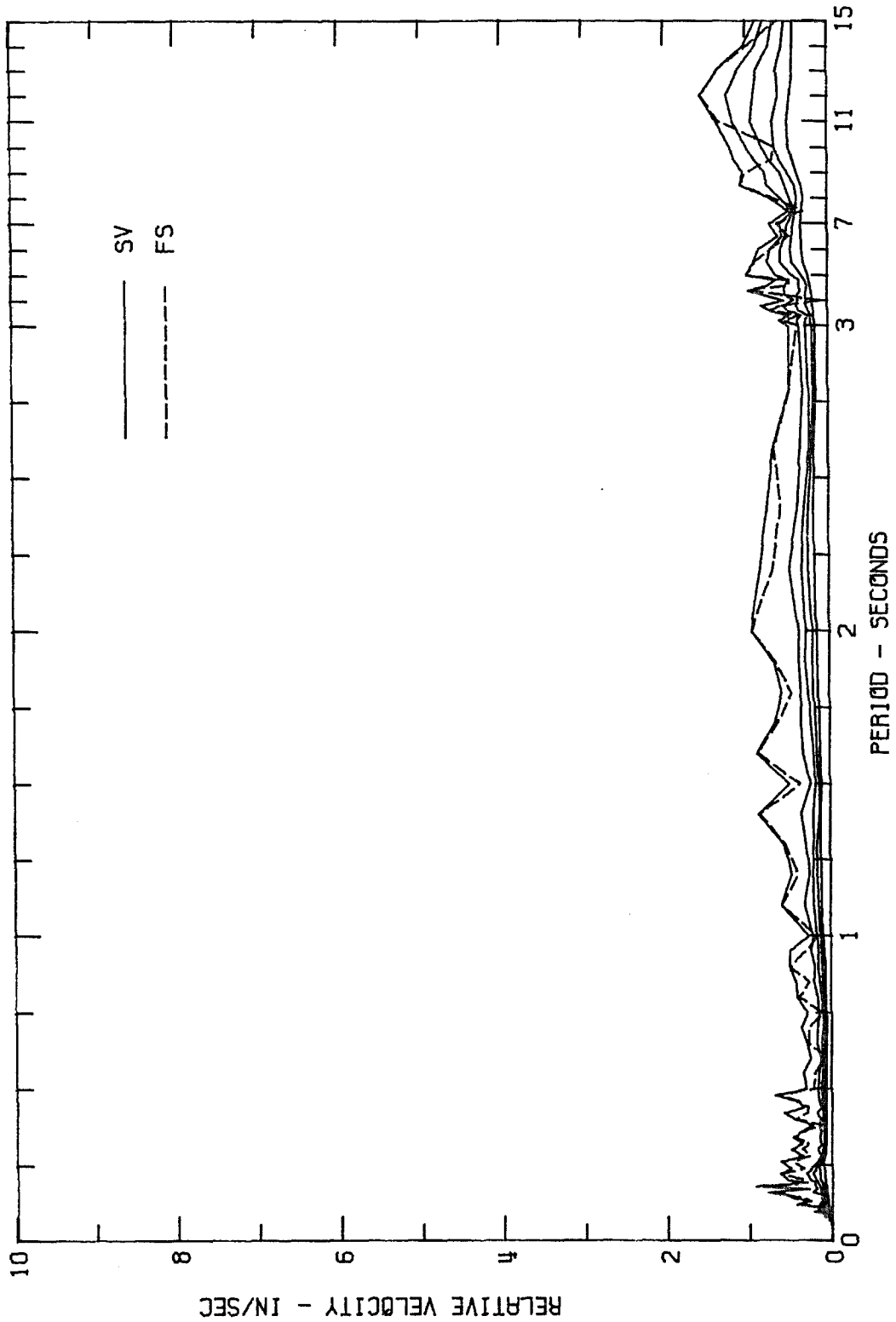


IMPERIAL COUNTY FORESHOCK DEC 16, 1955 - 2141 PST
 111T291 55.004. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
DAMPING = 0 PER CENT																	
DAMPING = 2 PER CENT																	
DAMPING = 5 PER CENT																	
DAMPING = 10 PER CENT																	
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0.095	693-4	237-5	146-3	269-4	157-3	136-5	784-4	155-4	905-4	106-5	606-4	121-4	705-4	810-6	443-4	926-5	536-4
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RELATIVE VELOCITY RESPONSE SPECTRUM
IMPERIAL COUNTY FORESHOCK DEC 16, 1955 - 2141 PST
1111T291 55.004.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

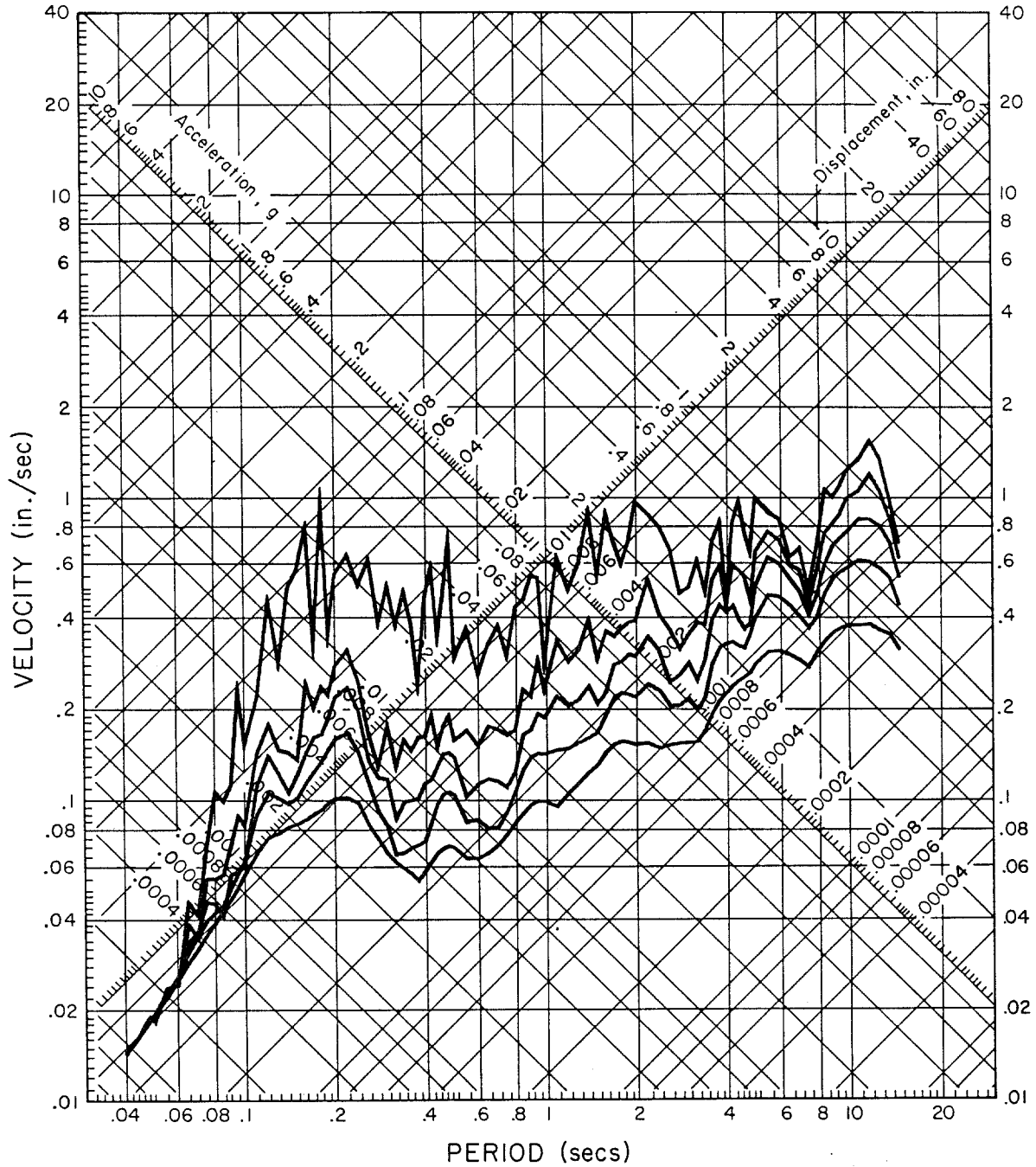


RESPONSE SPECTRUM

IMPERIAL COUNTY FORESHOCK DEC 16, 1955 - 2141 PST

IIIT291 55.004.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IIIT291 55.004. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

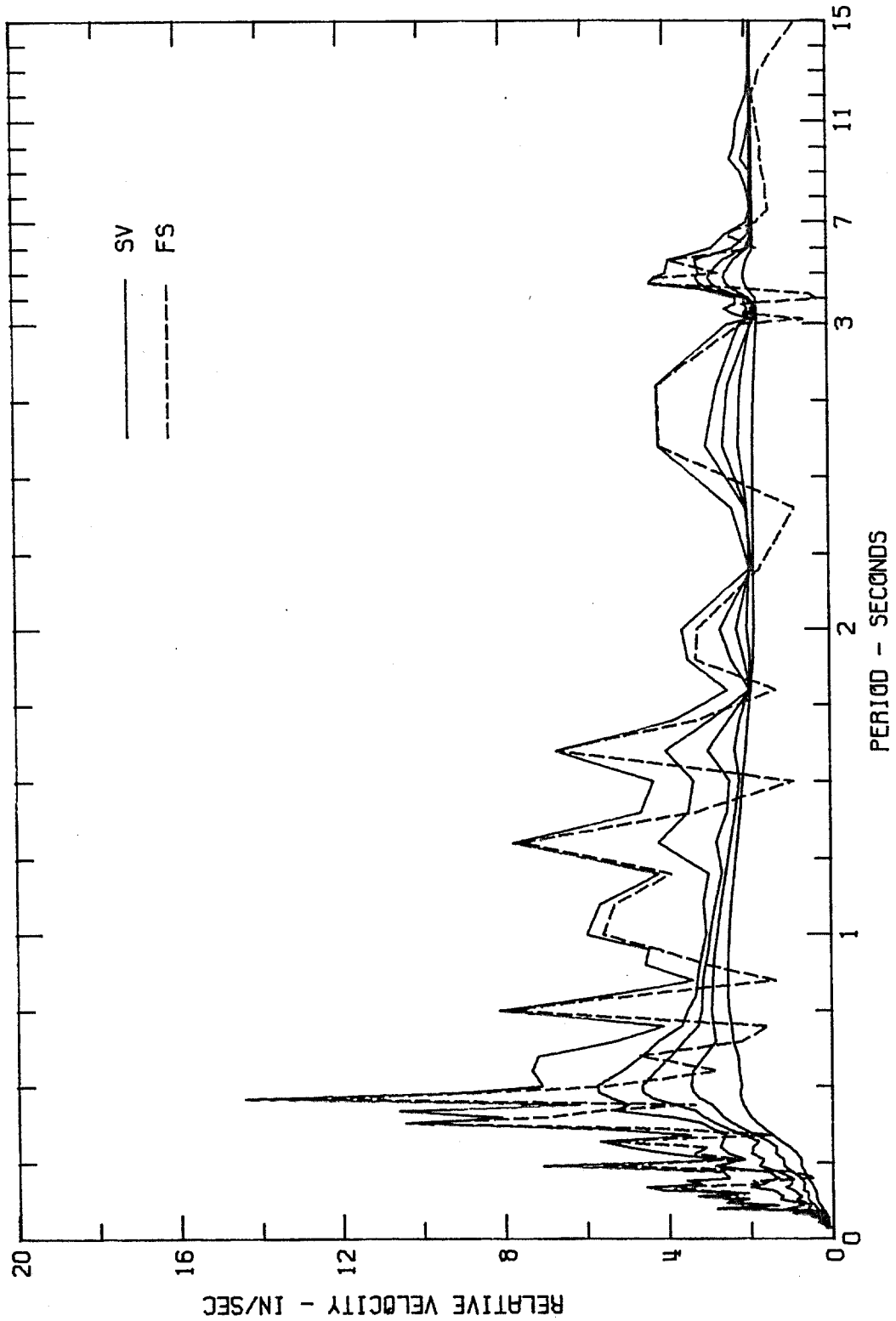
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0.040	915-6	898-7	418-5	574-5	141-4	899-7	430-5	575-5	141-4	900-7	439-5	575-5	141-4	906-7	445-5	580-5	142-4	913-7	448-5	589-5	143-7
0.042	161-5	100-6	480-5	583-5	150-4	100-6	482-5	584-5	150-4	100-6	487-5	585-5	150-4	101-6	493-5	588-5	151-4	101-6	495-5	596-5	152-7
0.044	103-5	112-6	537-5	594-5	160-4	112-6	542-5	595-5	161-4	112-6	543-5	596-5	161-4	113-6	546-5	597-5	161-4	113-6	547-5	603-5	161-7
0.046	199-5	129-6	649-5	625-5	176-4	127-6	610-5	615-5	174-4	128-6	599-5	610-5	172-4	125-6	603-5	608-5	171-4	125-6	603-5	612-5	171-7
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0.048	263-5	144-6	628-5	640-5	188-4	139-6	611-5	618-5	182-4	139-6	655-5	619-5	182-4	139-6	666-5	620-5	182-4	138-6	663-5	622-5	181-7
0.050	611-5	143-6	104-4	588-5	180-4	150-6	807-5	616-5	189-4	154-6	757-5	632-5	194-4	154-6	738-5	633-5	193-4	153-6	727-5	629-5	192-7
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0.060	109-4	229-6	181-4	651-5	240-4	233-6	130-4	665-5	244-4	245-6	124-4	699-5	257-4	248-6	118-4	707-5	259-4	239-6	111-4	694-5	251-7
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0.075	643-4	859-6	691-4	156-4	719-4	649-6	332-4	110-4	544-4	542-6	247-4	993-5	454-4	472-6	220-4	876-5	421-4	424-6	176-4	797-5	355-7
0.080	831-4	134-5	102-3	215-4	105-3	691-6	414-4	110-4	544-4	542-6	247-4	993-5	454-4	472-6	220-4	876-5	421-4	424-6	176-4	797-5	355-7
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0.100	114-3	239-5	150-3	245-4	150-3	129-5	730-4	132-4	816-4	947-6	484-4	969-5	595-4	987-6	334-4	104-4	620-4	895-6	351-4	947-5	562-7
0.110	141-3	381-5	209-3	322-4	217																

IIIT291 55.004. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	DAMPING = 0 PER CENT	DAMPING = 2 PER CENT	SV	SA	PSV	SD	SV	SA	PSV	DAMPING = 5 PER CENT	DAMPING = 10 PER CENT	SV	SA	PSV	DAMPING = 20 PER CENT
0.75	106-3	351-4	294-3	639-5	294-3	195-4	157-3	355-5	163-3	131-4	105-3	239-5	109-3	911-4	199-5	807-4	919-5	628-4	172-5	769-4				
0.80	392-3	549-4	415-3	878-5	431-3	216-4	163-3	347-5	170-3	157-4	119-3	253-5	124-3	106-3	220-5	950-4	106-4	634-4	179-5	840-4				
0.85	270-3	618-4	439-3	876-5	457-3	312-4	214-3	441-5	230-3	222-4	148-3	316-5	164-3	106-3	247-5	102-3	122-4	712-4	188-5	902-4				
0.90	513-3	780-4	518-3	985-5	544-3	312-4	202-3	394-5	218-3	243-4	160-3	309-5	170-3	137-4	256-5	111-3	137-4	778-4	192-5	960-4				
0.95	317-3	813-4	514-3	922-5	538-3	438-4	258-3	497-5	290-3	291-4	165-3	331-5	192-3	142-3	250-5	121-3	149-4	906-4	188-5	986-4				
1.00	175-3	442-4	274-3	452-5	278-3	362-4	221-3	371-5	228-3	297-4	173-3	305-5	186-3	141-3	235-5	136-3	156-4	102-3	180-5	985-4				
1.10	600-3	110-3	608-3	936-5	633-3	585-4	322-3	495-5	334-3	384-4	216-3	326-5	219-3	145-3	220-5	151-3	166-4	118-3	155-5	949-4				
1.20	409-3	932-4	481-3	662-5	488-3	543-4	261-3	385-5	284-3	387-4	223-3	276-5	203-3	148-3	204-5	174-3	200-4	128-3	151-5	105-3				
1.30	556-3	125-3	579-3	762-5	608-3	646-4	306-3	391-5	312-3	442-4	207-3	269-5	213-3	154-3	197-5	164-3	234-4	128-3	149-5	113-3				
1.40	866-3	201-3	887-3	105-4	903-3	874-4	369-3	457-5	392-3	529-4	218-3	277-5	237-3	160-3	189-5	139-3	273-4	121-3	152-5	122-3				
1.50	379-3	130-3	504-3	592-5	545-3	689-4	244-3	313-5	288-3	493-4	186-3	225-5	206-3	166-3	199-5	147-3	366-4	123-3	160-5	143-3				
1.60	884-3	226-3	892-3	906-5	891-3	916-4	338-3	366-5	359-3	577-4	208-3	232-5	226-3	191-3	185-5	166-3	311-4	116-3	153-5	130-3				
1.70	646-3	192-3	679-3	680-5	710-3	935-4	368-3	331-5	345-3	752-4	247-3	267-5	277-3	213-5	213-5	188-3	412-4	138-3	161-5	152-3				
1.80	466-3	170-3	588-3	539-5	596-3	104-3	355-3	331-5	366-3	817-4	266-3	259-5	285-3	224-3	208-5	202-3	446-4	148-3	157-5	155-3				
1.90	668-3	217-3	685-3	617-5	720-3	116-3	389-3	329-5	383-3	911-4	305-3	259-5	301-3	221-3	194-5	217-3	467-4	153-3	148-5	154-3				
2.00	954-3	308-3	956-3	789-5	969-3	123-3	384-3	317-5	389-3	945-4	299-3	242-5	297-3	218-3	183-5	216-3	537-4	163-3	137-5	152-3				
2.20	696-3	308-3	841-3	651-5	881-3	186-3	496-3	395-5	533-3	120-3	341-3	256-5	345-3	240-3	181-5	264-3	563-4	190-3	108-5	147-3				
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2.60	670-3	277-3	671-3	420-5	671-3	149-3	346-3	226-5	361-3	100-3	230-3	152-5	243-3	203-3	157-5	208-3	537-4	187-3	120-5	153-3				
2.80	475-3	212-3	477-3	277-5	477-3	139-3	319-3	182-5	313-3	115-3	247-3	150-5	258-3	204-3	188-3	120-5	684-4	159-3	940-6	153-3				
3.00	387-3	240-3	488-3	273-5	503-3	168-3	365-3	191-5	352-3	134-3	280-3	154-5	282-3	215-3	119-5	206-3	739-4	167-3	904-6	154-3				
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3.40	357-3	260-3	483-3	230-5	480-3	204-3	339-3	181-5	377-3	158-3	248-3	140-5	292-3	193-3	106-5	219-3	924-4	182-3	868-6	170-3				
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3.80	570-3	503-3	816-3	356-5	832-3	359-3	554-3	255-5	594-3	265-3	383-3	189-5	439-3	317-3	138-5	263-3	129-3	184-3	971-6	213-3				
4.00	605-4	287-3	536-3	183-5	451-3	275-3	419-3	176-5	432-3	263-3	365-3	168-5	413-3	327-3	135-5	269-3	143-3	182-3	986-6	224-3				
4.20	502-3	554-3	774-3	321-5	829-3	394-3	510-3	228-5	589-3	291-3	370-3	169-5	436-3	331-3	130-5	273-3	159-3	192-3	961-6	238-3				
4.40	977-3	685-3	978-3	362-5	978-3	401-3	531-3	211-5	572-3	273-3	338-3	144-5	380-3	400-3	121-5	265-3	173-3	207-3	966-6	254-3				
4.60	480-3	558-3	733-3	270-5	763-3	396-3	524-3	191-5	541-3	266-3	357-3	129-5	364-3	316-3	114-5	256-3	186-3	219-3	966-6	254-3				
4.80	472-3	499-3	635-3	221-5	653-3	344-3	481-3	153-5	451-3	290-3	350-3	129-5	380-3	400-3	121-5	327-3	200-3	230-3	959-6	262-3				
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6.00	701-3	809-3	840-3	229-5	847-3	689-3	701-3	196-5	722-3	573-3	585-3	163-5	601-3	435-3	110-5	448-3	311-3	334-3	802-6	301-3				
6.50	485-3	654-3	616-3	158-5	632-3	618-3	568-3	149-5	598-3	552-3	525-3	134-5	534-3	400-3	952-6	417-3	327-3	328-3	720-6	289-3				
7.00	626-3	757-3	706-3	158-5	679-3	636-3	572-3	132-5	571-3	540-3	481-3	113-5	484-3	400-3	952-6	385-3	327-3	315-3	662-6	274-3				
7.50	296-3	585-3	477-3	106-5	490-3	519-3	425-3	945-6	434-3	483-3	400-3	884-6	405-3	402-3	838-6	379-3	392-3	297-3	696-6	307-3				
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8.50	106-2	144-2	106-2	204-5	106-2	103-2	742-3	146-5	765-3	820-3	529-3	117-5	606-3	534-3	987-6	496-3	508-3	387-3	709-6	355-3				
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11.00	132-2	232-2	135-2	196-5	132-2	184-2	115-2	155-5	105-2	149-2	933-3	126-5	851-3	610-3	939-6	609-3	724-3	465-3	572-6	379-3				
12.00	155-2	295-2	155-2	210-5	154-2	228-2	123-2	162-5	119-2	162-2	907-3	115-5	848-3	851-6	610-3	609-3	724-3	465-3	572-6	379-3				
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14.00	971-3	217-2	101-2	113-5	975-3	189-2	875-3	987-6	848-3	157-2	710-3	825-6	704-3	648-6	537-3	556-3	781-3	424-3	486-6	350-3				
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RELATIVE VELOCITY RESPONSE SPECTRUM
IMPERIAL COUNTY EARTHQUAKE DEC 16, 1955 - 2207 PST
11117292 55.005.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT CAMP NORTH
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

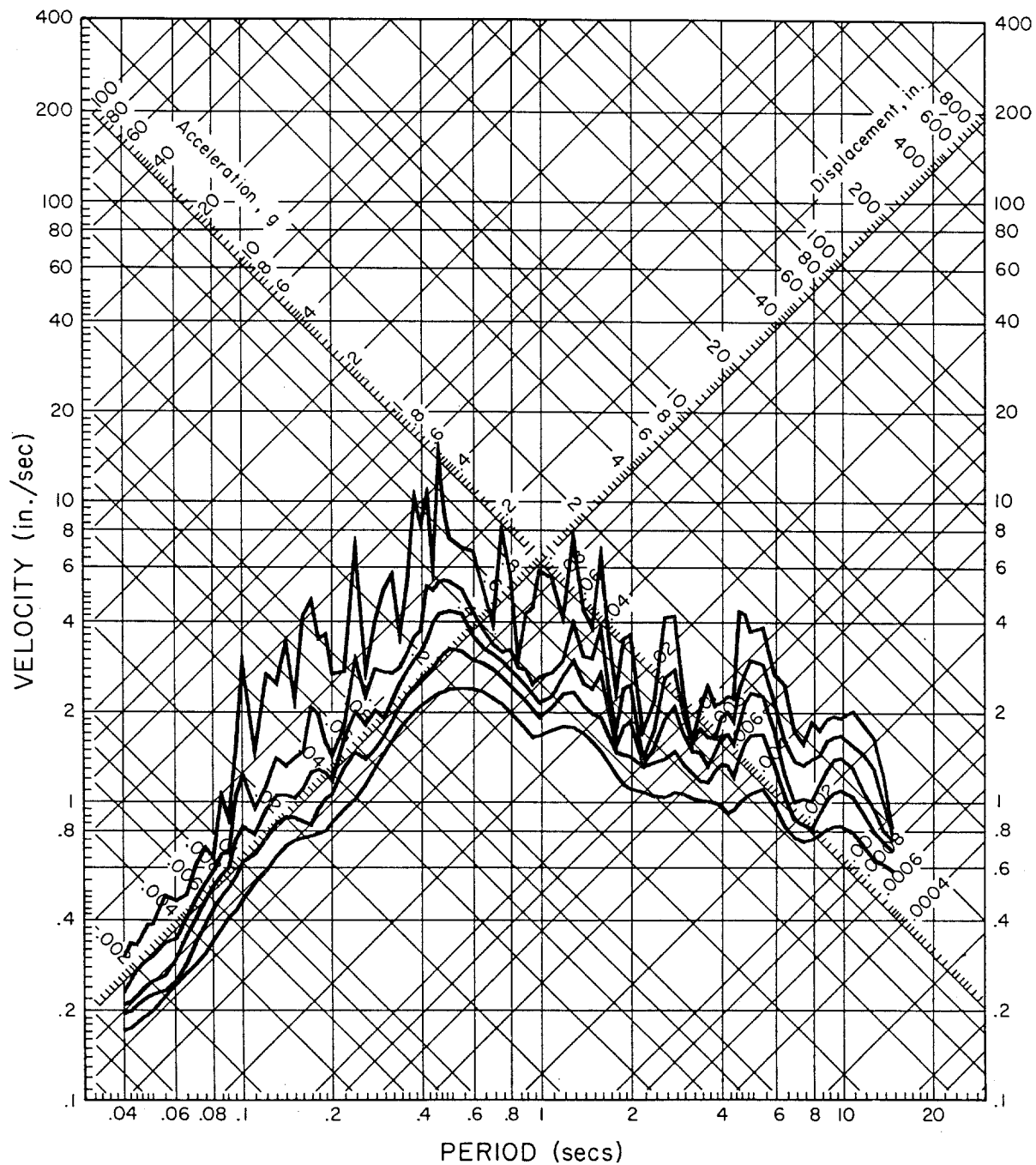


RESPONSE SPECTRUM

IMPERIAL COUNTY EARTHQUAKE DEC 16, 1955 - 2207 PST

IIIT292 55.005.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IIIT292 55.005. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT . COMP NORTH

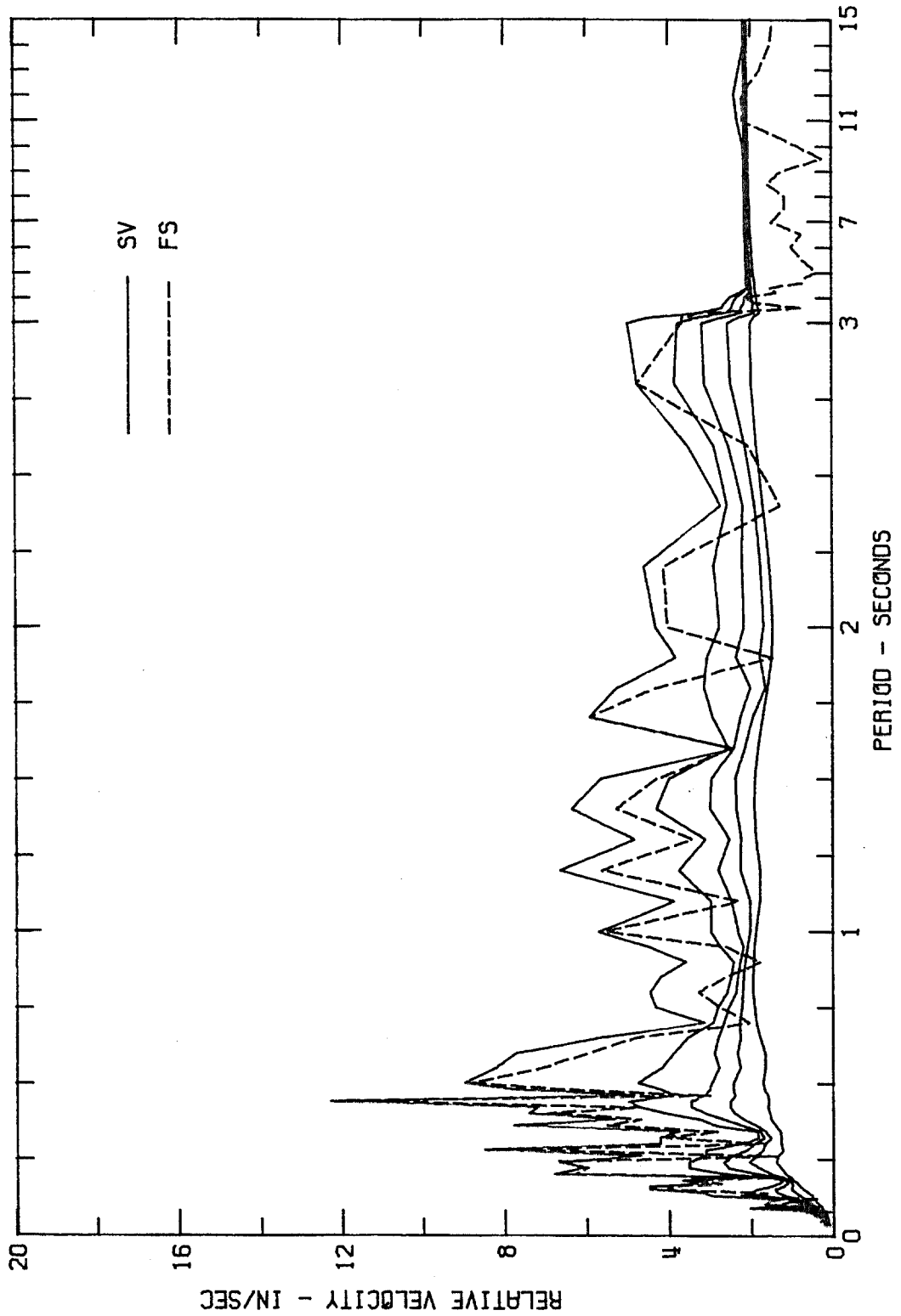
THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
IMPERIAL COUNTY EARTHQUAKE DEC 16, 1955 - 2207 PST
1111T292 55.005.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

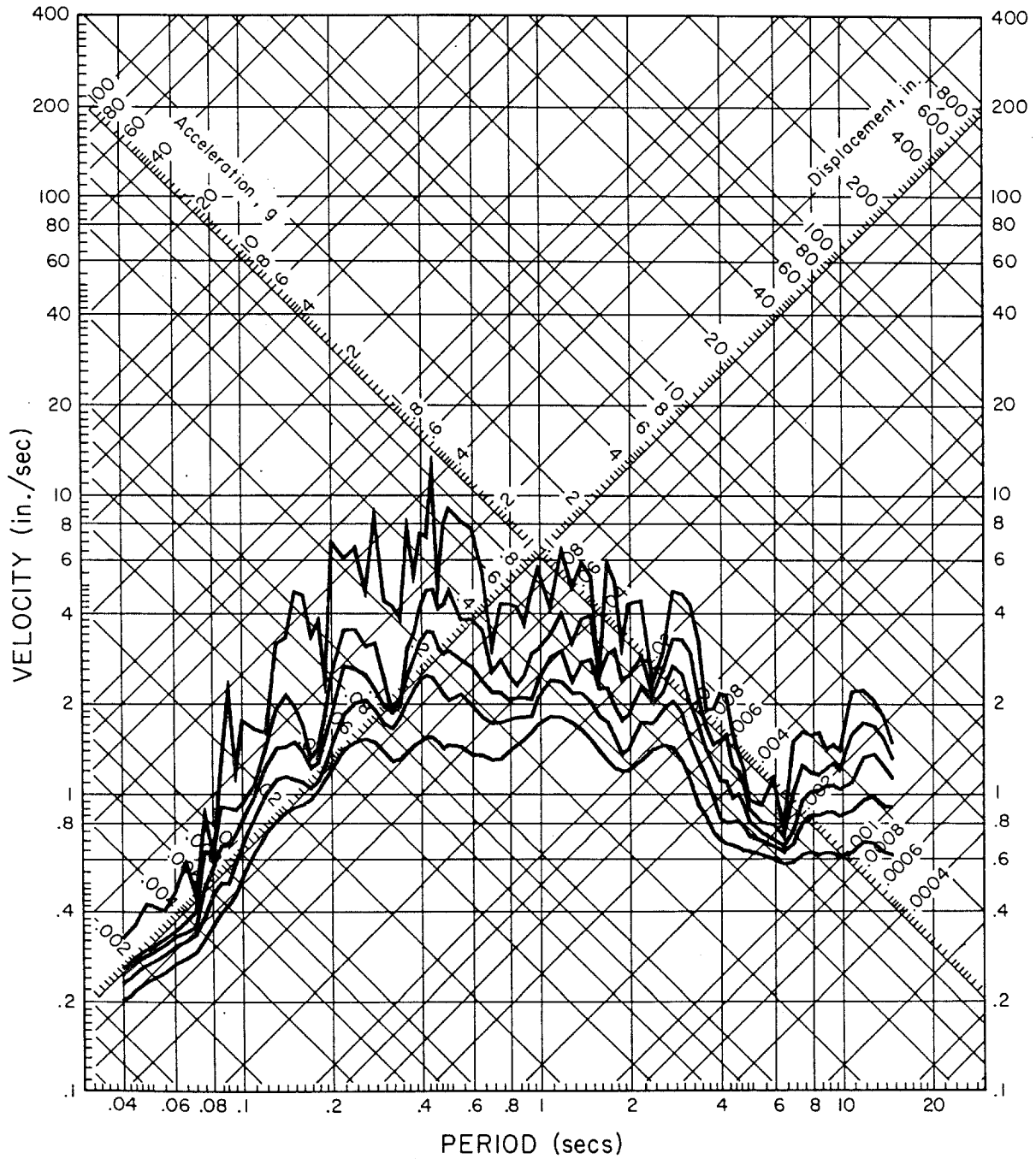


RESPONSE SPECTRUM

IMPERIAL COUNTY EARTHQUAKE DEC 16, 1955 - 2207 PST

IIIT292 55.005.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



IMPERIAL COUNTY EARTHQUAKE DEC 16, 1955 - 2207 PST

IIIT292 55.005. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

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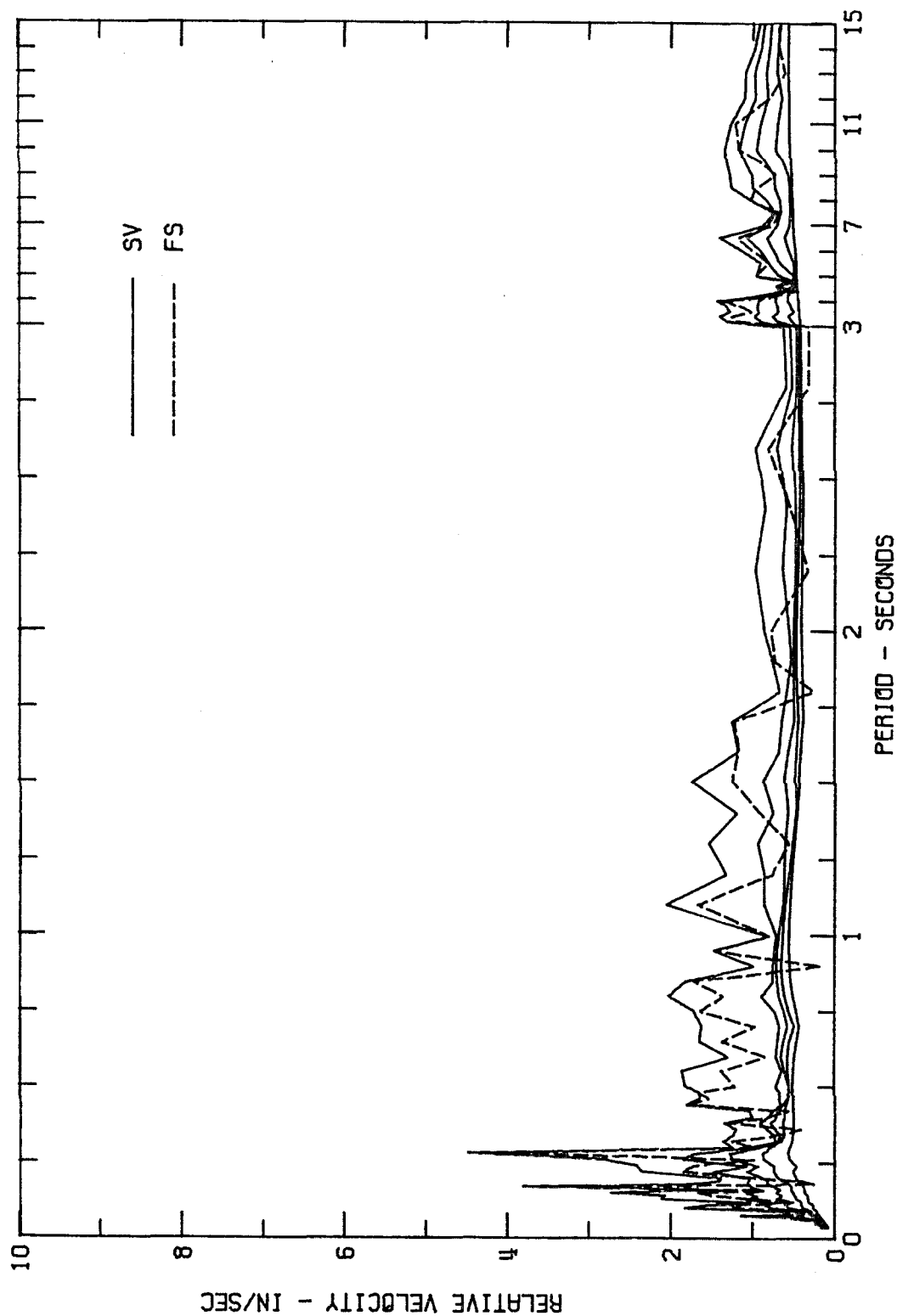
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IIIT292 55.005. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

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RELATIVE VELOCITY RESPONSE SPECTRUM
IMPERIAL COUNTY EARTHQUAKE DEC 16, 1955 - 2207 PST
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

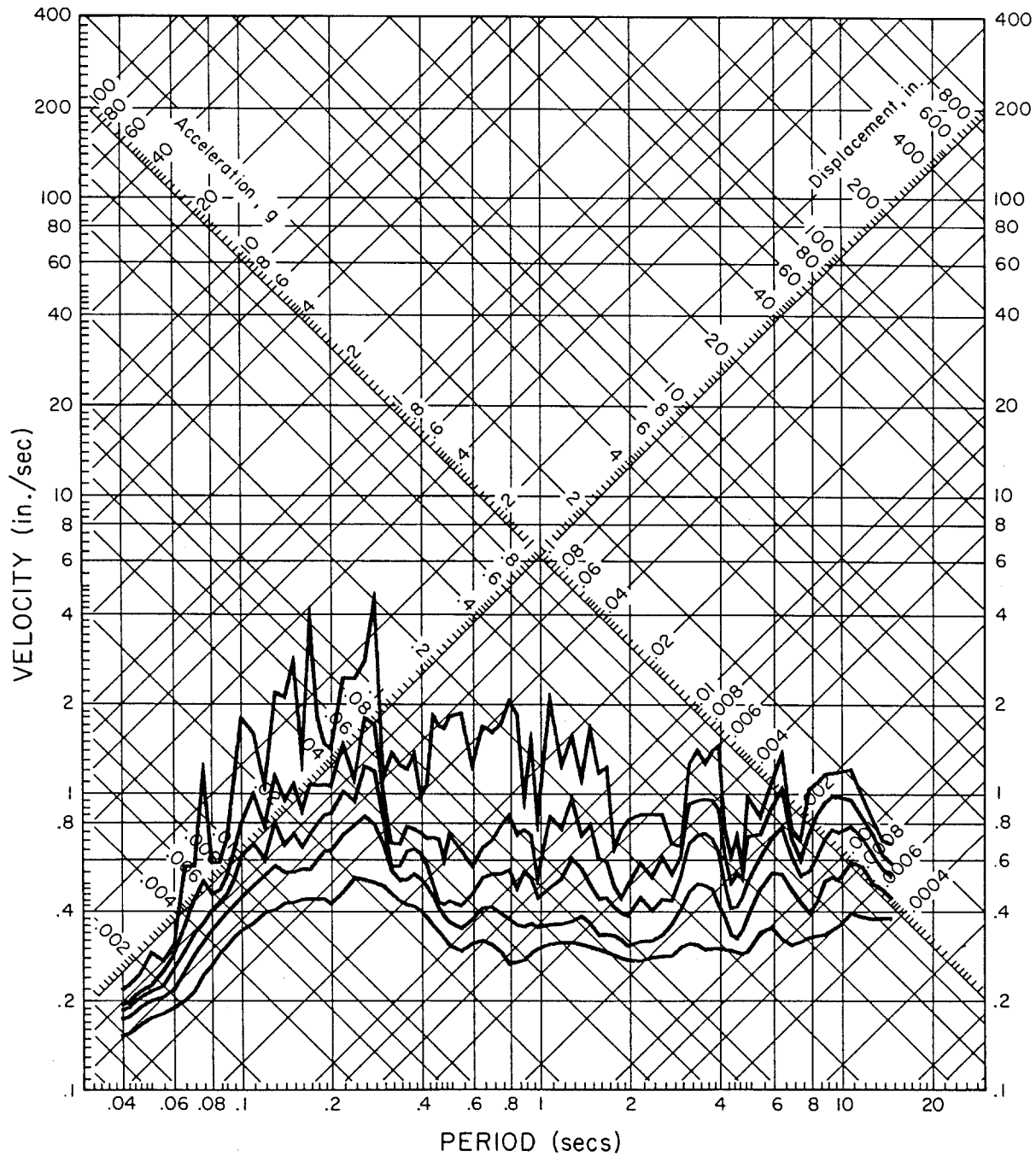


RESPONSE SPECTRUM

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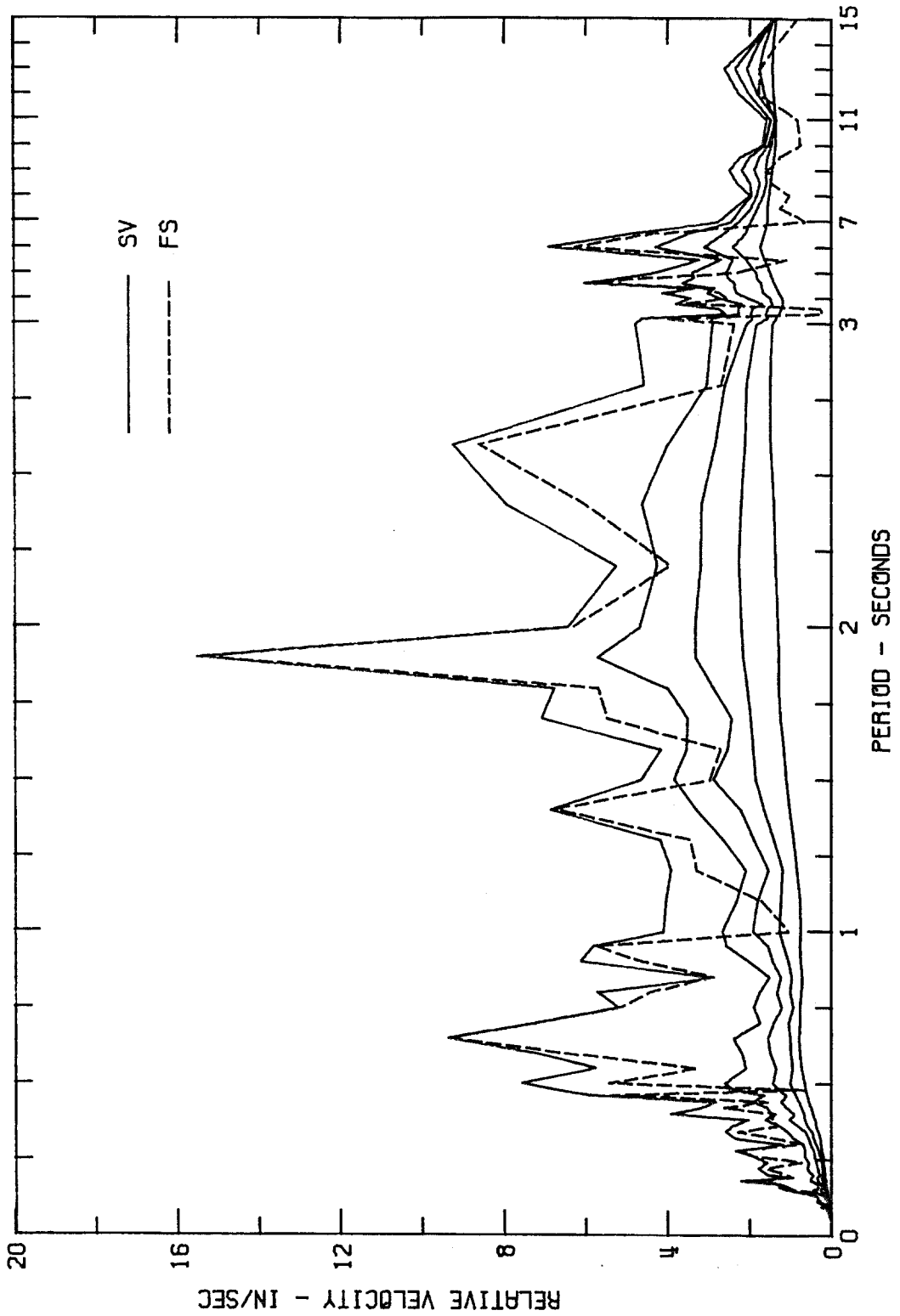
IIIT292 55.005.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



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RELATIVE VELOCITY RESPONSE SPECTRUM
GULF OF CALIFORNIA EARTHQUAKE AUG 7, 1966 - 0936 PST
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DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

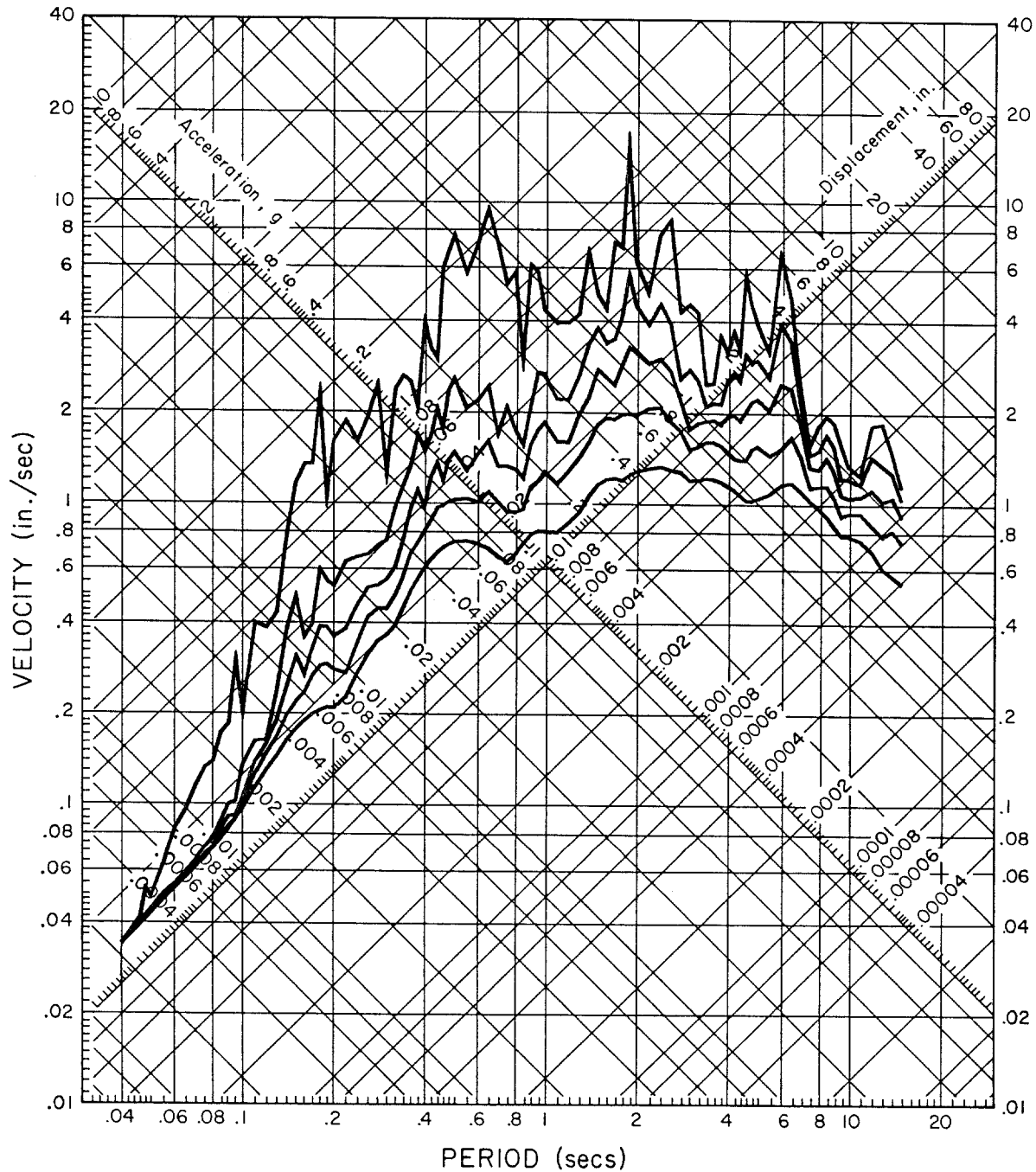


RESPONSE SPECTRUM

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IIIT293 66.009.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



GULF OF CALIFORNIA EARTHQUAKE AUG 7, 1966 - 0936 PST

IIII293 66.009. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT										DAMPING = 2 PER CENT										DAMPING = 5 PER CENT										DAMPING = 10 PER CENT										DAMPING = 20 PER CENT									
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0.044	759-5	274-6	894-5	145-4	392-4	265-6	697-5	140-4	378-4	263-6	689-5	139-4	376-4	262-6	684-5	138-4	375-4	261-6	666-5	138-4	373-4	261-6	666-5	138-4	373-4	261-6	666-5	138-4	373-4	261-6	666-5	138-4	373-4	261-6	666-5	138-4	373-4	261-6	666-5										
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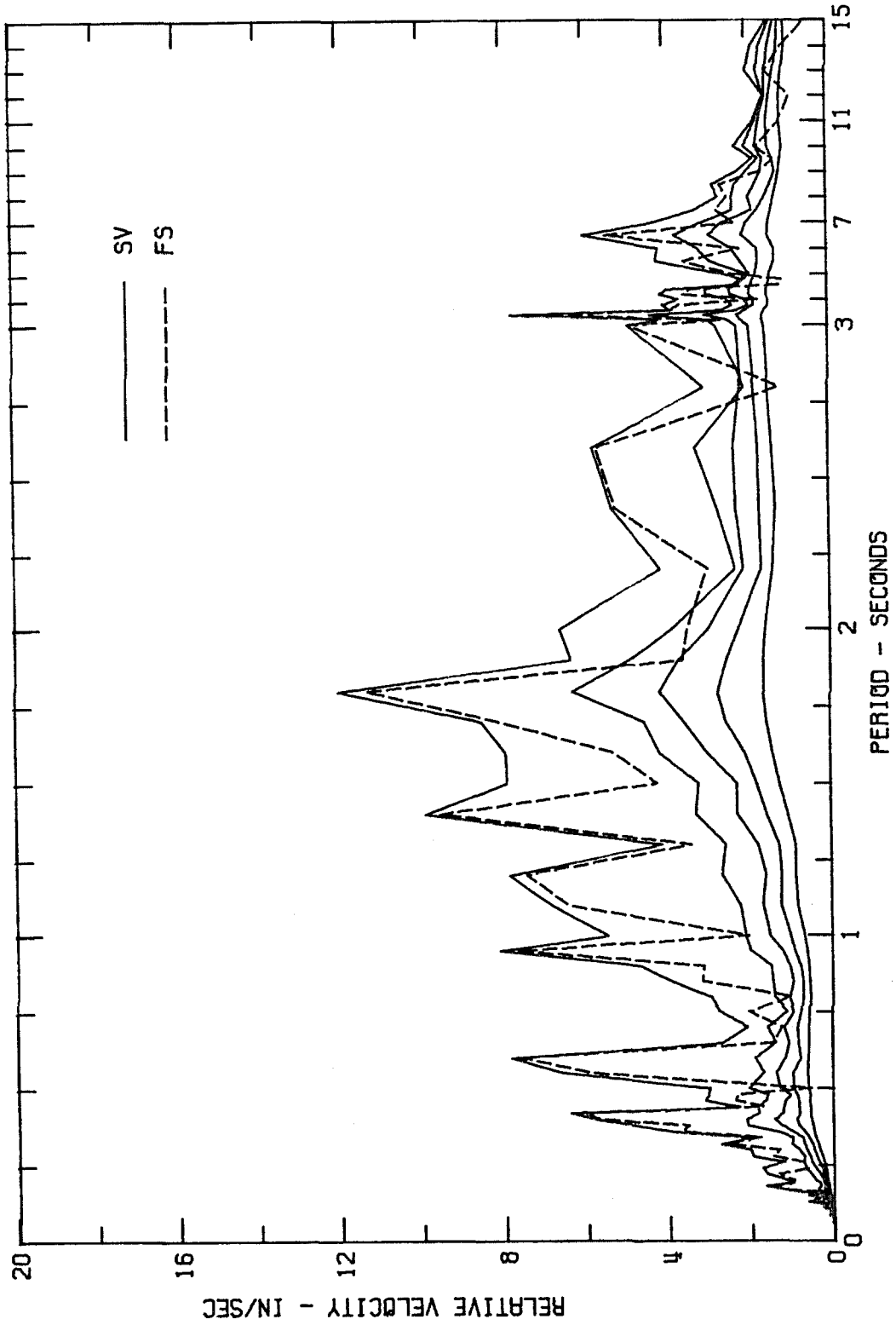
IIIT293 66.009. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP NORTH

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
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0.80	444-2	742-3	573-2	118-3	583-2	221-3	176-2	354-4	174-2	165-3	135-2	266-4	129-2	118-3	102-2	193-4	933-3
0.85	286-2	400-3	289-2	567-4	296-2	210-3	152-2	298-4	155-2	163-3	124-2	232-4	121-2	129-3	991-3	186-4	956-3
0.90	465-2	883-3	615-2	111-3	616-2	298-3	202-2	377-4	208-2	224-3	144-2	284-4	156-2	163-3	106-2	209-4	113-2
0.95	577-2	874-3	580-2	991-4	578-2	408-3	257-2	462-4	269-2	264-3	157-2	301-4	174-2	179-3	119-2	207-4	118-2
1.00	107-2	688-3	408-2	704-4	432-2	424-3	267-2	434-4	266-2	294-3	192-2	302-4	185-2	202-3	128-2	211-4	127-2
1.10	172-2	688-3	402-2	581-4	393-2	386-3	230-2	327-4	220-2	279-3	180-2	237-4	159-2	204-3	125-2	175-4	116-2
1.20	330-2	754-3	390-2	535-4	393-2	419-3	209-2	298-4	219-2	303-3	154-2	216-4	158-2	245-3	120-2	177-4	128-2
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1.60	271-2	111-2	415-2	446-4	438-2	861-3	353-2	344-4	338-2	665-3	253-2	267-4	261-2	487-3	192-2	198-4	191-2
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1.80	571-2	202-2	677-2	638-4	703-2	119-2	401-2	378-4	418-2	823-3	288-2	261-4	288-2	565-3	206-2	182-4	197-2
1.90	155-1	469-2	155-1	133-3	153-1	173-2	572-2	491-4	573-2	995-3	332-2	283-4	329-2	598-3	217-2	173-4	197-2
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2.20	393-2	172-2	525-2	364-4	492-2	136-2	424-2	289-4	390-2	101-2	319-2	215-4	289-2	724-3	227-2	156-4	206-2
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2.60	862-2	363-2	927-2	550-4	878-2	161-2	399-2	244-4	389-2	113-2	282-2	172-4	273-2	773-3	211-2	120-4	186-2
2.80	268-2	190-2	457-2	248-4	428-2	115-2	303-2	150-4	258-2	976-3	259-2	128-4	219-2	774-3	207-2	103-4	173-2
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DAMPING = 0 PER CENT DAMPING = 2 PER CENT DAMPING = 5 PER CENT DAMPING = 10 PER CENT DAMPING = 20 PER CENT

RELATIVE VELOCITY RESPONSE SPECTRUM
GULF OF CALIFORNIA EARTHQUAKE AUG 7, 1966 - 0936 PST
111T293 66.009.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

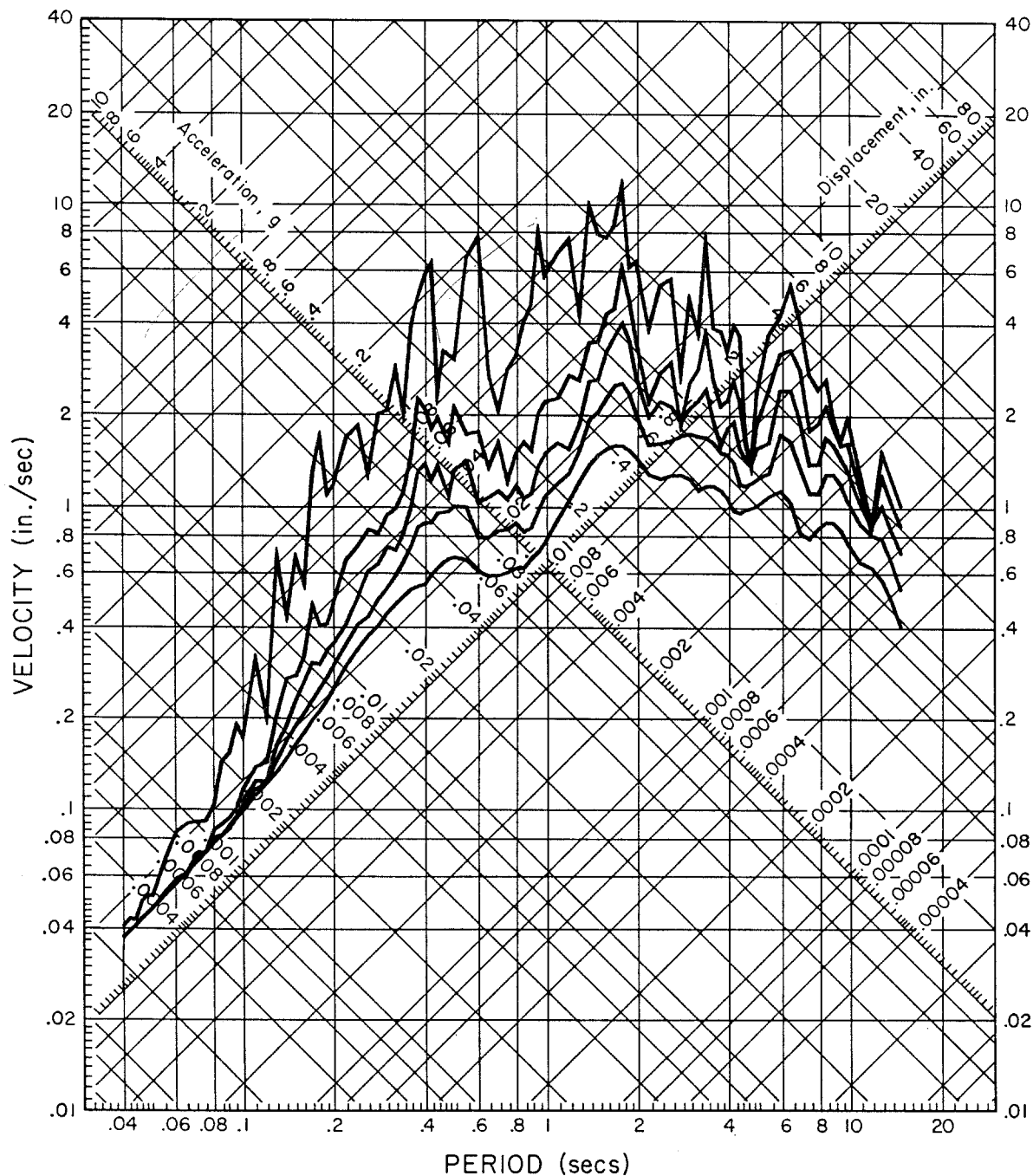


RESPONSE SPECTRUM

GULF OF CALIFORNIA EARTHQUAKE AUG 7, 1966 - 0936 PST

IIIT293 66.009.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



GULF OF CALIFORNIA EARTHQUAKE AUG 7, 1966 - 0936 PST

111T293 66.009. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

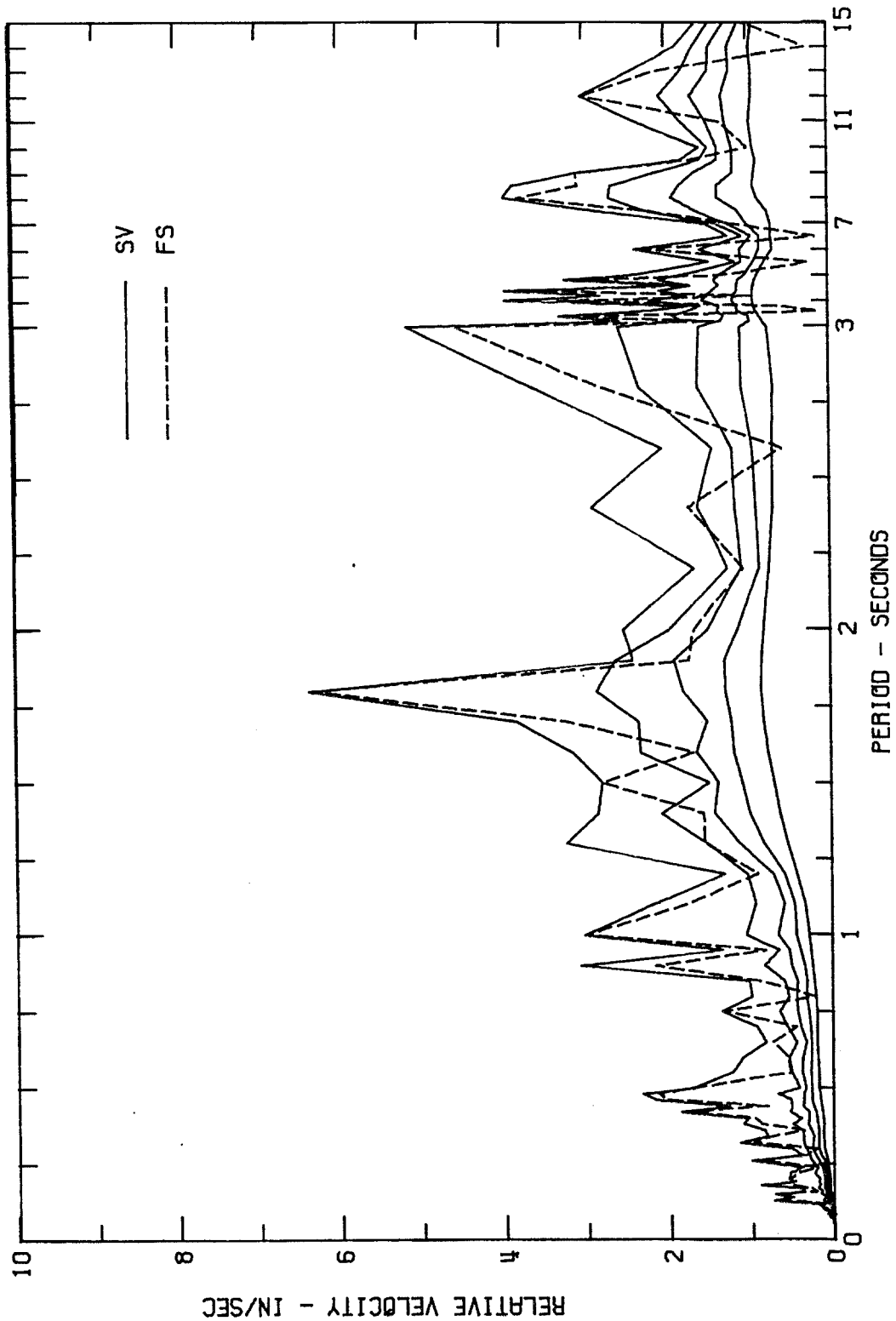
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0.040	101-5	257-6	871-5	164-4	404-4	236-6	575-5	150-4	370-4	236-6	593-5	150-4	370-4	236-6	604-5	150-4	370-4	236-6	608-5	150-4	370-4	236-6	608-5	150-4	370-4	236-6	608-5	150-4	370-4	236-6	608-5	150-4	370-4						
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0.044	757-5	298-6	117-4	157-4	425-4	286-6	815-5	151-4	408-4	286-6	750-5	151-4	408-4	286-6	744-5	151-4	408-4	286-6	741-5	151-4	408-4	286-6	741-5	151-4	408-4	286-6	741-5	151-4	408-4	286-6	741-5	151-4	408-4						
0.046	737-5	359-6	107-4	173-4	490-4	313-6	780-5	151-4	428-4	313-6	826-5	151-4	428-4	313-6	825-5	151-4	428-4	313-6	814-5	151-4	428-4	313-6	814-5	151-4	428-4	313-6	814-5	151-4	428-4	313-6	814-5	151-4	428-4						
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0.080	539-4	132-5	532-4	211-4	103-3	108-5	311-4	173-4	851-4	101-5	278-4	162-4	800-4	987-6	265-4	157-4	775-4	975-6	249-4	156-4	775-4	975-6	249-4	156-4	766-4	975-6	249-4	156-4	766-4	975-6	249-4	156-4	766-4						
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IIIT293 66.009. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP EAST

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
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0.80	100-2	401-3	299-2	641-4	315-2	191-3	142-2	306-4	150-2	150-3	106-2	241-4	118-2	112-3	732-3	183-4	887-3	800-4	540-3	135-4	628-3
0.85	319-2	553-3	393-2	783-4	408-2	222-3	147-2	314-4	164-2	145-3	970-3	205-4	107-2	112-3	727-3	162-4	830-3	854-4	566-3	127-4	631-3
0.90	315-2	674-3	471-2	851-4	470-2	219-3	150-2	277-4	153-2	159-3	105-2	202-4	111-2	123-3	787-3	157-4	861-3	977-4	598-3	128-4	682-3
0.95	770-2	123-2	815-2	140-3	818-2	309-3	200-2	350-4	204-2	207-3	123-2	236-4	137-2	148-3	921-3	171-4	980-3	108-3	624-3	128-4	716-3
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1.10	646-2	121-2	687-2	102-3	693-2	399-3	225-2	337-4	228-2	285-3	168-2	242-4	163-2	210-3	124-2	181-4	120-2	159-3	844-3	141-4	910-3
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1.30	341-2	890-3	410-2	539-4	430-2	538-3	258-2	325-4	260-2	391-3	181-2	238-4	189-2	319-3	129-2	195-4	154-2	253-3	890-3	162-4	122-2
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1.50	424-2	191-2	791-2	871-4	802-2	834-3	323-2	379-4	349-2	825-3	230-2	285-4	262-2	491-3	183-2	227-4	206-2	355-3	127-2	172-4	148-2
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1.70	810-2	235-2	855-2	833-4	870-2	122-2	456-2	434-4	453-2	994-3	358-2	353-4	367-2	681-3	256-2	245-4	251-2	432-3	156-2	163-4	159-2
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1.90	361-2	188-2	634-2	533-4	623-2	145-2	490-2	412-4	481-2	106-2	370-2	303-4	352-2	709-3	254-2	205-4	234-2	466-3	165-2	142-4	154-2
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3.00	489-2	233-2	491-2	265-4	489-2	122-2	277-2	139-4	257-2	101-2	225-2	115-4	211-2	833-3	194-2	978-5	174-2	591-3	156-2	763-5	123-2
3.20	258-2	189-2	411-2	189-4	371-2	145-2	297-2	145-4	284-2	114-2	247-2	115-4	224-2	871-3	213-2	902-5	171-2	580-3	161-2	673-5	113-2
3.40	709-2	410-2	776-2	363-4	758-2	203-2	437-2	180-4	376-2	132-2	302-2	117-4	244-2	916-3	222-2	837-5	169-2	636-3	161-2	635-5	117-2
3.60	382-2	222-2	382-2	175-4	387-2	150-2	256-2	118-4	262-2	109-2	218-2	875-5	191-2	932-3	199-2	768-5	162-2	675-3	155-2	577-5	114-2
3.80	363-2	229-2	402-2	162-4	379-2	129-2	233-2	919-5	214-2	959-3	192-2	688-5	158-2	914-3	180-2	680-5	151-2	689-3	145-2	577-5	114-2
4.00	165-2	206-2	363-2	132-4	325-2	143-2	246-2	915-5	224-2	116-2	203-2	751-5	182-2	947-3	179-2	639-5	148-2	682-3	145-2	530-5	107-2
4.20	353-2	266-2	409-2	154-4	399-2	173-2	297-2	100-4	260-2	128-2	237-2	750-5	191-2	939-3	191-2	578-5	140-2	653-3	149-2	476-5	977-3
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4.80	112-2	103-2	212-2	458-5	135-2	104-2	207-2	465-5	137-2	106-2	200-2	474-5	138-2	920-3	181-2	423-5	120-2	763-3	141-2	376-5	998-3
5.00	233-2	189-2	252-2	776-5	238-2	148-2	195-2	606-5	186-2	124-2	189-2	511-5	155-2	985-3	175-2	416-5	123-2	809-3	140-2	371-5	101-2
5.50	351-2	326-2	418-2	110-4	373-2	213-2	289-2	723-5	244-2	143-2	212-2	485-5	163-2	113-2	169-2	256-5	400-5	955-3	128-2	370-5	109-2
6.00	213-2	408-2	413-2	116-4	428-2	305-2	317-2	869-5	320-2	232-2	235-2	665-5	243-2	166-2	170-2	493-5	173-2	108-2	128-2	367-5	113-2
6.50	543-2	563-2	598-2	136-4	545-2	340-2	373-2	826-5	329-2	250-2	288-2	608-5	241-2	169-2	209-2	431-5	164-2	107-2	144-2	326-5	103-2
7.00	227-2	452-2	428-2	943-5	405-2	312-2	309-2	652-5	280-2	211-2	256-2	445-5	190-2	149-2	197-2	324-5	134-2	919-3	142-2	257-5	825-3
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8.00	243-2	310-2	264-2	496-5	243-2	240-2	230-2	385-5	189-2	177-2	191-2	284-5	139-2	141-2	150-2	233-5	111-2	109-2	128-2	197-5	857-3
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9.50	128-2	248-2	178-2	281-5	164-2	241-2	164-2	274-5	159-2	219-2	154-2	252-5	145-2	180-2	131-2	217-5	119-2	127-2	110-2	178-5	843-3
10.00	170-2	313-2	224-2	320-5	196-2	258-2	200-2	264-5	162-2	210-2	173-2	218-5	132-2	167-2	142-2	184-5	105-2	121-2	106-2	159-5	764-3
11.00	114-2	227-2	177-2	191-5	129-2	202-2	173-2	171-5	115-2	181-2	163-2	155-5	103-2	155-2	144-2	134-5	886-3	116-2	113-2	122-5	664-3
12.00	877-3	168-2	151-2	119-5	880-3	159-2	151-2	113-5	836-3	165-2	147-2	119-5	868-3	154-2	136-2	115-5	810-3	120-2	112-2	103-5	633-3
13.00	147-2	313-2	195-2	189-5	151-2	260-2	169-2	158-5	126-2	210-2	146-2	128-5	101-2	163-2	126-2	105-5	789-3	118-2	106-2	852-6	574-3
14.00	110-2	274-2	183-2	143-5	123-2	228-2	162-2	119-5	102-2	185-2	140-2	986-6	831-3	146-2	119-2	798-6	659-3	109-2	100-2	733-6	490-3
15.00	509-3	241-2	143-2	109-5	101-2	207-2	136-2	944-6	867-3	169-2	127-2	787-6	708-3	127-2	116-2	625-6	536-3	963-3	103-2	662-6	403-3

RELATIVE VELOCITY RESPONSE SPECTRUM
GULF OF CALIFORNIA EARTHQUAKE AUG 7, 1966 - 0936 PST
1111T293 66.009.0 EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP
DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL

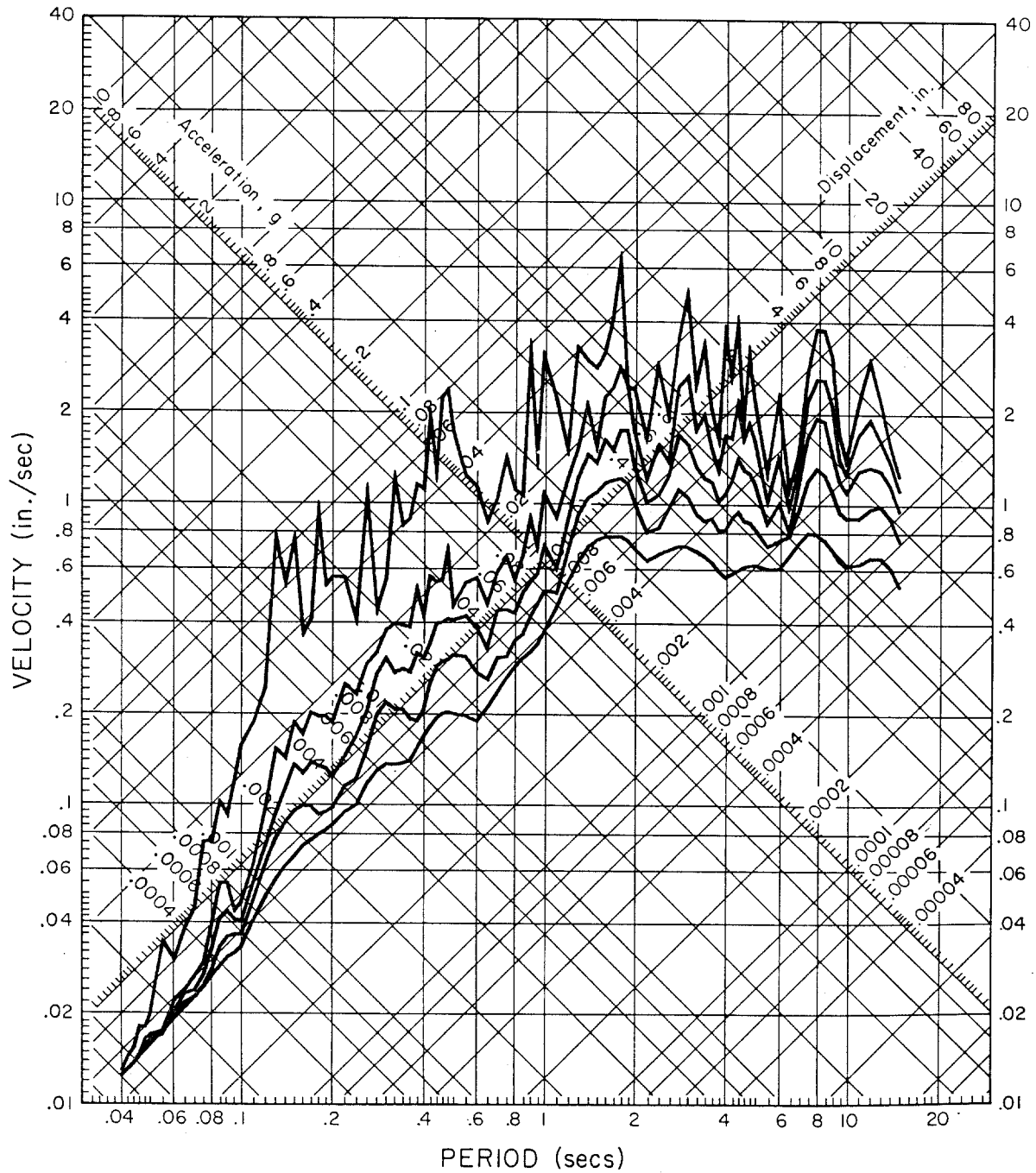


RESPONSE SPECTRUM

GULF OF CALIFORNIA EARTHQUAKE AUG 7, 1966 - 0936 PST

IIIT293 66.009.0 EL CENTRO. IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

DAMPING VALUES ARE 0, 2, 5, 10 AND 20 PERCENT OF CRITICAL



GULF OF CALIFORNIA EARTHQUAKE AUG 7, 1966 - 0936 PST
 111T293 66.009. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

DAMPING = 0 PER CENT														DAMPING = 2 PER CENT				DAMPING = 5 PER CENT				DAMPING = 10 PER CENT				DAMPING = 20 PER CENT			
PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV				
0.040	153-5	810-7	380-5	518-5	127-4	781-7	272-5	499-5	122-4	778-7	265-5	498-5	122-4	777-7	254-5	497-5	122-4	778-7	231-5	498-5	122-4	778-7	231-5	498-5	122-4				
0.042	673-6	950-7	430-5	551-5	142-4	863-7	296-5	500-5	129-4	862-7	292-5	500-5	129-4	862-7	280-5	500-5	129-4	862-7	254-5	500-5	129-4	862-7	254-5	500-5	128-4				
0.044	211-5	107-6	548-5	565-5	152-4	951-7	341-5	502-5	135-4	954-7	327-5	504-5	136-4	953-7	307-5	504-5	136-4	949-7	280-5	504-5	136-4	949-7	280-5	504-5	135-4				
0.046	516-5	130-6	815-5	633-5	178-4	106-6	396-5	513-5	145-4	105-6	361-5	512-5	144-4	105-6	334-5	508-5	143-4	104-6	313-5	504-5	143-4	104-6	313-5	504-5	142-4				
0.048	173-5	136-6	611-5	603-5	178-4	124-6	423-5	551-5	162-4	118-6	392-5	525-5	154-4	115-6	372-5	512-5	151-4	113-6	349-5	506-5	151-4	113-6	349-5	506-5	149-4				
0.050	629-5	156-6	922-5	641-5	196-4	133-6	491-5	545-5	167-4	128-6	453-5	526-5	161-4	125-6	418-5	512-5	157-4	123-6	388-5	507-5	157-4	123-6	388-5	507-5	155-4				
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0.060	672-5	283-6	153-4	805-5	297-4	207-6	880-5	588-5	217-4	193-6	786-5	549-5	202-4	184-6	686-5	526-5	193-4	181-6	606-5	516-5	181-6	606-5	516-5	189-4	189-4				
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0.080	245-4	945-6	585-4	151-4	742-4	505-6	292-4	805-5	397-4	414-6	241-4	664-5	325-4	353-6	181-4	629-5	277-4	334-6	126-4	539-5	277-4	334-6	126-4	539-5	263-4				
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IIIT293 66.009. EL CENTRO, IMPERIAL VALLEY IRRIGATION DISTRICT COMP UP

THE UNITS USED ARE SEC FOR PER, IN/SEC FOR FS, SV, AND PSV, IN FOR SD AND G FOR SA

PER	FS	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV	SD	SV	SA	PSV
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0.80	218-3	141-3	998-3	225-4	110-2	704-4	543-3	112-4	553-3	545-4	454-3	875-5	428-3	442-4	333-3	715-5	347-3
0.85	909-3	143-3	103-2	203-4	106-2	907-4	605-3	128-4	670-3	682-4	449-3	972-5	504-3	494-4	325-3	708-5	365-3
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1.10	179-2	389-3	219-2	329-4	222-2	156-3	941-3	132-4	896-3	105-3	596-3	897-5	603-3	881-4	470-3	756-5	503-3
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3.60	117-3	117-2	232-2	930-5	205-2	878-3	173-2	693-5	153-2	677-3	136-2	538-5	118-2	511-3	111-2	415-5	892-3
3.80	565-3	982-3	170-2	696-5	162-2	774-3	156-2	549-5	128-2	616-3	134-2	439-5	101-2	491-3	113-2	358-5	812-3
4.00	330-2	235-2	396-2	150-4	369-2	107-2	220-2	687-5	168-2	693-3	155-2	446-5	108-2	522-3	118-2	343-5	820-3
4.20	926-3	176-2	277-2	102-4	263-2	110-2	176-2	641-5	165-2	802-3	149-2	467-5	120-2	600-3	117-2	358-5	898-3
4.40	381-2	274-2	396-2	145-4	392-2	151-2	207-2	799-5	215-2	990-3	142-2	527-5	141-2	661-3	112-2	361-5	944-3
4.60	172-2	129-2	183-2	626-5	177-2	119-2	168-2	577-5	163-2	948-3	134-2	462-5	129-2	641-3	110-2	323-5	876-3
4.80	314-2	240-2	323-2	106-4	314-2	141-2	208-2	628-5	185-2	967-3	140-2	432-5	126-2	662-3	110-2	302-5	867-3
5.00	127-2	174-2	241-2	714-5	219-2	128-2	180-2	524-5	161-2	928-3	133-2	382-5	116-2	656-3	102-2	275-5	825-3
5.50	235-3	110-2	145-2	371-5	125-2	888-3	113-2	300-5	101-2	752-3	106-2	256-5	859-3	632-3	918-3	222-5	722-3
6.00	224-2	214-2	237-2	608-5	224-2	135-2	158-2	385-5	142-2	962-3	108-2	276-5	100-2	721-3	843-3	215-5	755-3
6.50	151-3	115-2	122-2	279-5	111-2	100-2	105-2	242-5	967-3	836-3	946-3	204-5	808-3	809-3	847-3	203-5	782-3
7.00	121-2	166-2	152-2	347-5	149-2	147-2	139-2	308-5	132-2	129-2	124-2	272-5	116-2	106-2	100-2	227-5	952-3
7.50	221-2	328-2	286-2	596-5	274-2	263-2	223-2	479-5	220-2	200-2	163-2	367-5	168-2	143-2	111-2	263-5	119-2
8.00	380-2	484-2	397-2	773-5	380-2	330-2	268-2	527-5	259-2	245-2	192-2	395-5	193-2	167-2	136-2	274-5	131-2
8.50	305-2	506-2	385-2	717-5	374-2	348-2	265-2	493-5	257-2	253-2	182-2	361-5	187-2	168-2	136-2	247-5	124-2
9.00	308-2	441-2	308-2	558-5	308-2	304-2	213-2	384-5	212-2	210-2	164-2	267-5	147-2	156-2	116-2	204-5	109-2
9.50	172-2	260-2	179-2	295-5	172-2	211-2	156-2	239-5	139-2	180-2	135-2	205-5	119-2	142-2	116-2	166-5	942-3
10.00	989-3	221-2	157-2	226-5	139-2	199-2	147-2	204-5	125-2	174-2	135-2	179-5	109-2	142-2	117-2	150-5	897-3
11.00	133-2	377-2	235-2	319-5	215-2	296-2	180-2	251-5	169-2	225-2	149-2	192-5	129-2	157-2	126-2	139-5	899-3
12.00	298-2	570-2	302-2	405-5	298-2	363-2	206-2	258-5	190-2	253-2	168-2	181-5	132-2	183-2	130-2	135-5	963-3
13.00	210-2	451-2	239-2	273-5	218-2	334-2	179-2	202-5	161-2	267-2	146-2	162-5	129-2	203-2	120-2	127-5	983-3
14.00	278-3	347-2	186-2	181-5	155-2	304-2	164-2	158-5	136-2	254-2	145-2	134-5	114-2	198-2	122-2	108-5	888-3
15.00	104-2	295-2	161-2	134-5	123-2	263-2	145-2	120-5	110-2	225-2	126-2	103-5	945-3	179-2	109-2	859-6	752-3

California Institute of Technology
Earthquake Engineering Research Laboratory

The following reports of the Earthquake Engineering Research Laboratory from 1970 on can be obtained from the National Technical Information Service, Springfield, Virginia 22121:

Strong-Motion Earthquake Accelerograms
Digitized and Plotted Data
Volume I

<u>Part</u>	<u>Report No.</u>	<u>NTIS Accession No.</u>
A	EERL 70-20	PB-287 847
B	EERL 70-21	PB-196 823
C	EERL 71-20	PB-204 364
D	EERL 71-21	PB-208 529
E	EERL 71-22	PB-209 749
F	EERL 71-23	PB-210 619
G	EERL 72-20	PB-211 357
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I	EERL 72-22	PB-213 422
J	EERL 72-23	PB-213 423
K	EERL 72-24	PB-213 424
L	EERL 72-25	PB-215 639
M	EERL 72-26	PB-220 554
N	EERL 72-27	PB-223 023
O	EERL 73-20	PB-222 417
P	EERL 73-21	PB-227 481/AS
Q	EERL 73-22	PB-232 315/AS

Strong-Motion Earthquake Accelerograms
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Corrected Accelerograms and Integrated
Ground Velocity and Displacement Curves

Volume II

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A	EERL 71-50	PB-208 283
B	EERL 72-50	PB-220 161
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Analyses of Strong-Motion Earthquake Accelerograms
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Volume III

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A	EERL 72-80	PB-212 602
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Analyses of Strong-Motion Earthquake Accelerograms
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Volume IV

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A	EERL 72-100	PB-212 603
B	EERL 73-100	PB-220 837
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E	EERL 73-103	PB-229 240/AS
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G	EERL 73-105	PB-231 224/AS
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I	EERL 74-101	PB-232 328/AS
J, K, L, M	EERL 74-102	PB-236 111/AS
N, O, P	EERL 74-103	PB-238 447/AS

- Strong-Motion Instrumental Data on the San Fernando Earthquake of February 9, 1971, (PB-204 198)
- P. C. Jennings, et al, Forced Vibration of a 22-Story Steel Frame Building (EERL 71-01; PB-205 161)
- P. C. Jennings, ed., Engineering Features of the San Fernando Earthquake (EERL 71-02; PB-202 550)
- Randolph A. Adu, Response and Failure of Structures under Stationary Random Excitation (EERL 71-02; PB-205 304)
- Jacobo Bielak, Earthquake Response of Building-Foundation Systems (EERL 71-04; PB-205 305)
- M. D. Trifunac, F. E. Udwadia, A. G. Brady, High Frequency Errors and Instrument Corrections of Strong-Motion Accelerograms (EERL 71-05; PB-205 369)
- Knut Sverre Skattum, Dynamic Analysis of Coupled Shear Walls and Sandwich Beams (EERL 71-06; PB-205 267)
- John Brent Hoerner, Modal Coupling and Earthquake Response of Tall Buildings (EERL 71-07; PB-207 635)
- P. C. Jennings and J. Bielak, Dynamics of Building-Soil Interaction (EERL 72-01; PB-209 666)
- F. E. Udwadia, Investigation of Earthquake and Microtremor Ground Motions (EERL 72-02; PB-212 853)
- Albert W. Whitney, On Insurance Settlements Incident to the 1906 San Francisco Fire (DRC 72-01; PB-213 256)
- J. H. Wood, Analysis of the Earthquake Response of a Nine-Story Steel Frame Building during the San Fernando Earthquake (EERL 72-04; PB-215 823)
- F. E. Udwadia and M. D. Trifunac, The Fourier Transform, Response Spectra and their Relationship through the Statistics of Oscillator Response (EERL 73-01; PB-220 458)
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